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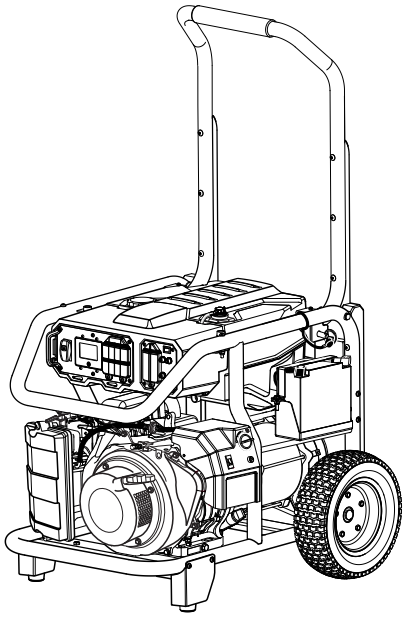
OPERATOR'S MANUAL

Manuel de l'opérateur
Manual del operador

PORTABLE GENERATOR

Générateur portable
Generador portàtil

RD906812A/RD906812B



NOTICE AVIS AVISO

Do not use E15 or E85 fuel (or fuel containing greater than 10% ethanol) in this product. It is a violation of federal law and will damage the unit and void your warranty.

Ne pas utiliser d'essence E15 ou E85 (ou un carburant contenant plus de 10 % d'éthanol) dans ce produit. Une telle utilisation représente une violation de la loi fédérale et endommagera l'appareil et annulera la garantie.

No utilice combustibles E15 o E85 (ni combustibles que contengan más de 10 % de etanol) con este producto. Esto constituye una violación a la ley federal, dañará la unidad y anulará la garantía.

NEUTRAL BONDED TO FRAME
(CONNECTEUR NEUTRE RELIÉ AU CADRE, PUNTO NEUTRO CONECTADO AL MARCO)

Your generator has been engineered and manufactured to our high standard for dependability, ease of operation, and operator safety. When properly cared for, it will give you years of rugged, trouble-free performance.

WARNING: To reduce the risk of injury, the user must read and understand the operator's manual before using this product. If you do not understand the warnings and instructions in the operator's manual, do not use this product.

SAVE THIS MANUAL FOR FUTURE REFERENCE

Ce générateur a été conçu et fabriqué conformément à nos strictes normes de fiabilité, simplicité d'emploi et sécurité d'utilisation. Correctement entretenu, cet outil vous donnera des années de fonctionnement robuste et sans problème.

AVERTISSEMENT :

Pour réduire les risques de blessures, l'utilisateur doit lire et veiller à bien comprendre le manuel d'utilisation avant d'employer ce produit. Si tous les avertissements et toutes les consignes de sécurités et instructions du manuel d'utilisation ne sont pas bien compris, ne pas utiliser ce produit.

CONSERVER CE MANUEL POUR FUTURE RÉFÉRENCE

Su generador diseñado y fabricado de conformidad con nuestras estrictas normas para brindar fiabilidad, facilidad de uso y seguridad para el operador. Con el debido cuidado, le brindará muchos años de sólido funcionamiento y sin problemas.

ADVERTENCIA:

Para reducir el riesgo de lesiones, el usuario debe leer y comprender el manual del operador antes de usar este producto. Guarde este manual del operador y estúdielo frecuentemente para lograr un funcionamiento seguro y continuo de este producto.

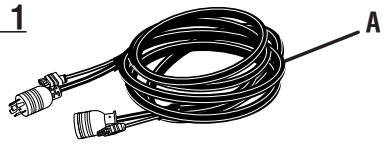
GUARDE ESTE MANUAL PARA FUTURAS CONSULTAS

See this fold-out section for all of the figures referenced in the operator's manual.

Consulter l'encart à volets afin d'examiner toutes les figures mentionnées dans le manuel d'utilisation.

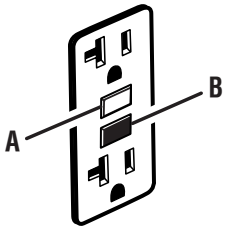
Consulte esta sección desplegable para ver todas las figuras a las que se hace referencia en el manual del operador.

Fig. 1



A - Control panel cord (not provided) [cordon de panneau de commande (non fourni), cordón de panel de control (no incluido)]

Fig. 2



A - Reset button (bouton de réinitialisation, botón de reajuste)
B - Test button (bouton de test, botón de prueba)

Fig. 3

A - Recoil starter grip (poignée du démarreur à rappel, mango del arrancador retráctil)
B - Air filter (filtre à air, filtro de aire)
C - Choke lever (levier d'étrangleur, palanca del anegador)
D - Removable control panel (panneau de commande amovible, panel de control en distintas)
E - Fuel cap (bouchon de carburant, tapa del tanque)
F - Engine switch (commutateur du moteur, interruptor del motor)
G - GenSmart™ monitoring system (système de surveillance GenSmart™, sistema de monitoreo GenSmart™)
H - 120 volt AC GFCI 20 amp receptacles (prises 120 V C.A. GFCI 20 A, 120 V de CA GFCI 20 A receptáculos)
I - 240 V AC 30 amp receptacle (prise 240 V C.A. 30 A, 240 V de CA 30 A receptáculo)
J - AC circuit breaker (disjoncteur de C.A., disyuntor de circuito de CA)
K - Handle (poignée, mango)
L- Fuel tank (réservoir de carburant, tanque de combustible)
M - Fuel tank vapor vent (évent de vapeur du réservoir de carburant, respirador del vapor del tanque de combustible)
N - Ground terminal (borne de terre, terminal de conexión a tierra)
O - Oil cap/dipstick (bouchon/jauge d'huile, tapa de relleno de aceite/varilla medidora de aceite)
P - Oil drain plug (huiler le bouchon d'égout, tapón de drenaje del aceite)
Q - Handle lock pin (goupille de blocage de la poignée, pasador de seguro del mango)
R - Fuel valve (robinet de carburant, válvula de combustible)
S - Muffler (silencieux, silenciador)
T - Lock button (bouton de verrouillage, botón del seguro)
U - Idle control switch (commande du ralenti, interruptor de control de ralentí)
V - Low oil shut-off indicator (indicateur de bas niveau d'huile, indicador de apagado por poco aceite)

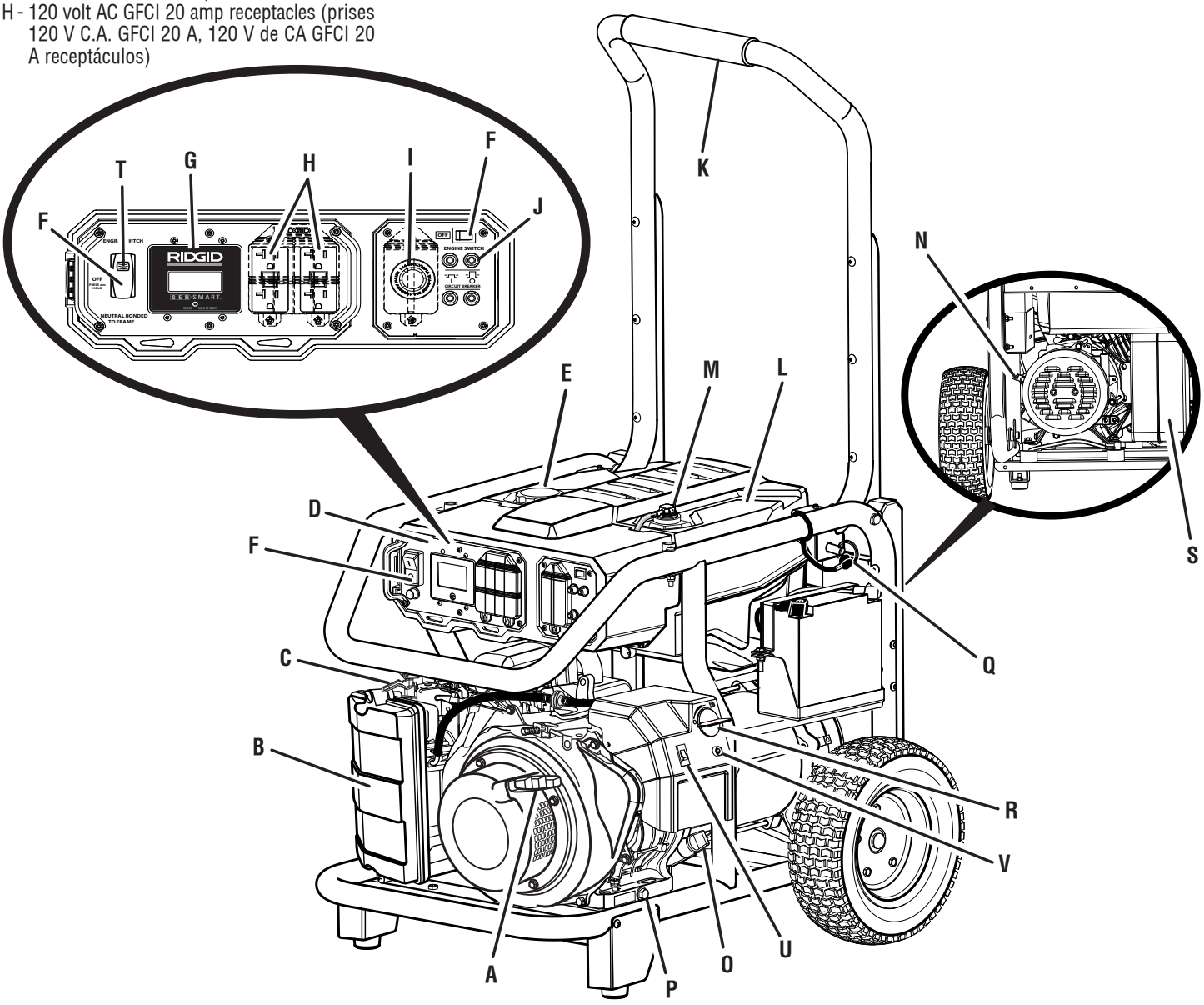
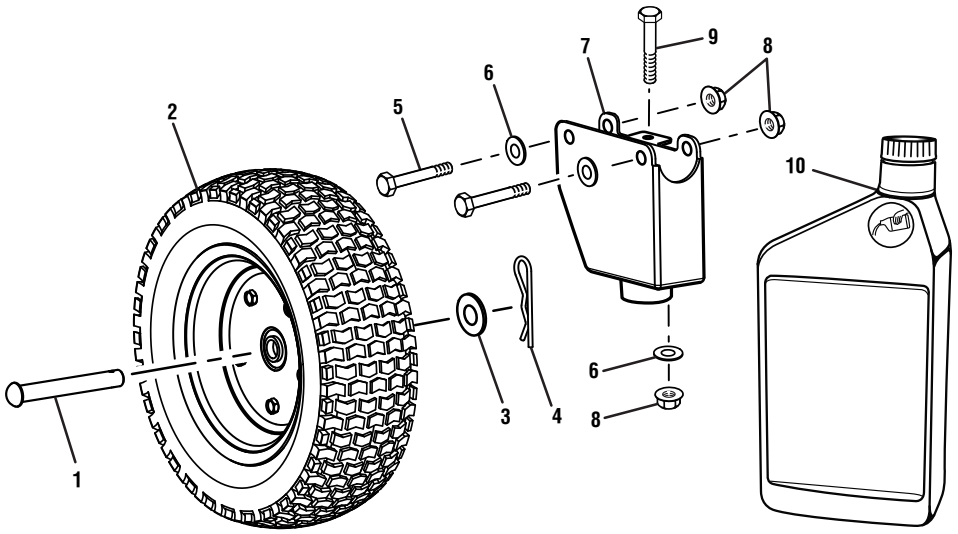
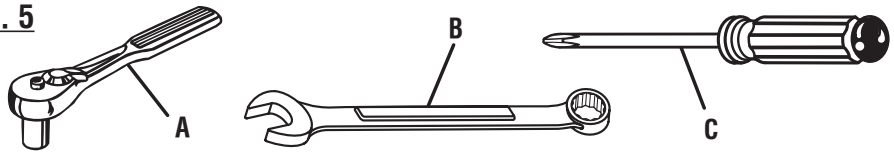


Fig. 4



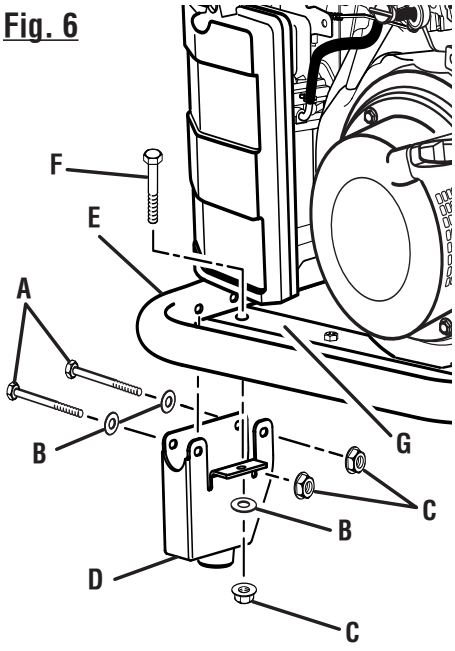
1 - Axle (essieu, eje)
2 - Wheel (roue, rueda)
3 - Washer (rondelle, arandela)
4 - Hitch pin (axe de blocage, pasador del enganche)
5 - Screw, 2 in. (vis, 2 po; tornillo, 2 pulg.)
6 - Washer (rondelle, arandela)
7 - Leg with rubber foot (pied avec patin en caoutchouc, pata con pie de goma)
8 - Nut (écrou, tuerca)
9 - Screw, 1 in. (vis, 1 po; tornillo, 1 pulg.)
10 - Engine lubricant (lubrifiant de moteur, lubricante para motor)

Fig. 5



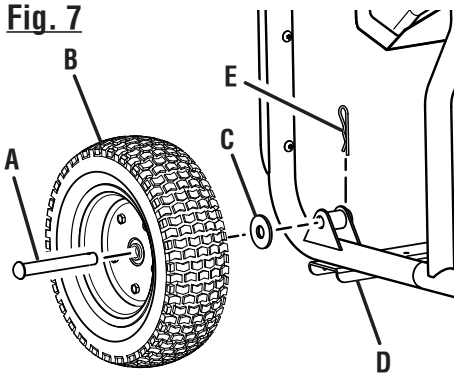
A - Socket wrench (clé à douille, llave de casquillo)
B - Combination wrench (clé mixte, llave de combinación)
C - Phillips screwdriver (tournevis phillips, destornillador phillips)

Fig. 6



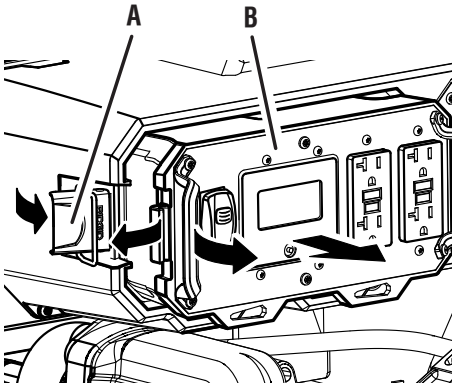
A - Screw, 2 in. (vis, 2 po; tornillo, 2 pulg.)
B - Washer (rondelle, arandela)
C - Lock nut (écrou de blocage, tuerca de seguridad)
D - Leg with rubber foot (pied avec patin en caoutchouc, pata con pie de goma)
E - Frame (cadre, armazón)
F - Screw, 1 in. (vis, 1 po; tornillo, 1 pulg.)
G - Frame crossbar (barre stabilisatrice du cadre travesaño del bastidor)

Fig. 7



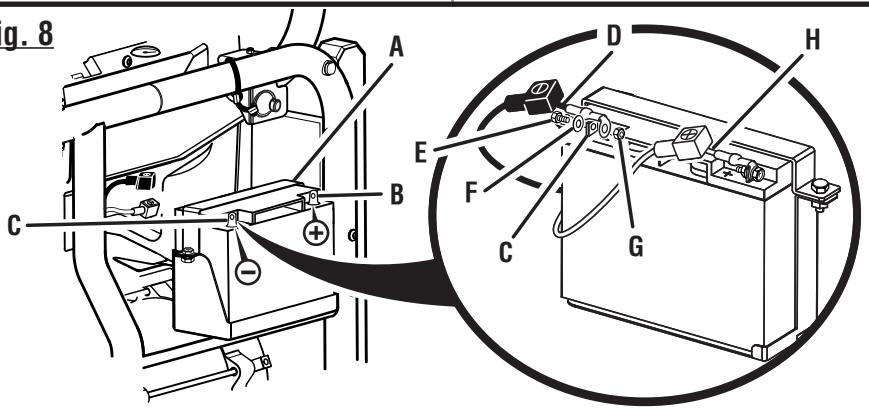
A - Axle (essieu, eje)
B - Wheel (roue, rueda)
C - Washer (rondelle, arandela)
D - Mount bracket (support de montage, soporte de montaje)
E - Hitch pin (goupille de sûreté, pasador de enganche)

Fig. 9



A - Latch (loquet, pestillo)
B - Removable control panel (panneau de commande amovible, panel de control en distintas)

Fig. 8



A - Battery bracket (support de pile, soporte de la batería)
B - Positive (+) terminal [borne positive (+), tapa del terminal positiva (+)]
C - Negative (–) terminal [borne négative (–), terminal negativa (–)]
D - Black wire (–) [fil noir (–), cable negro (–)]
E - Screw (vis, tornillo)
F - Washer (rondelle, arandela)
G - Nut (écrou tuerca)
H - Red wire (+) [fil rouge (+), cable rojo (+)]

Fig. 10

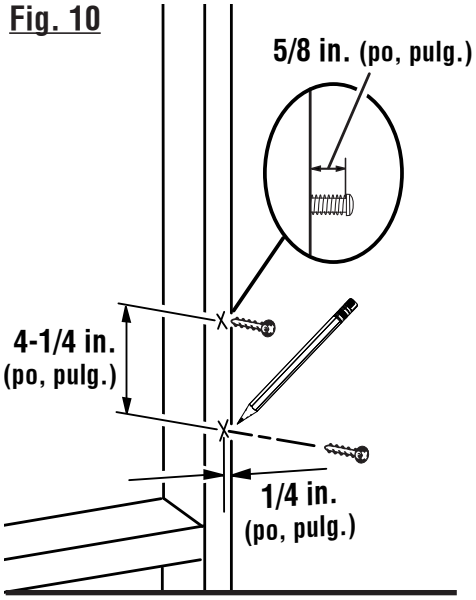


Fig. 11

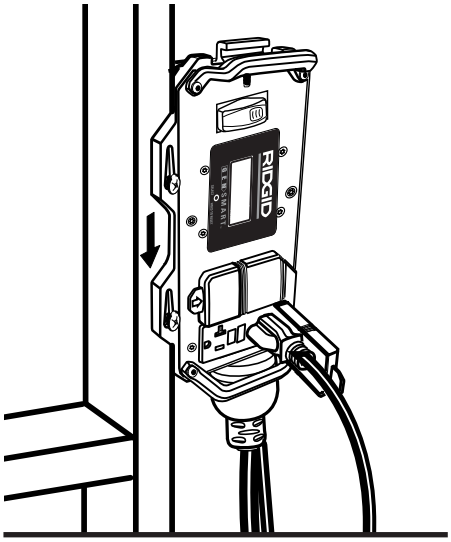
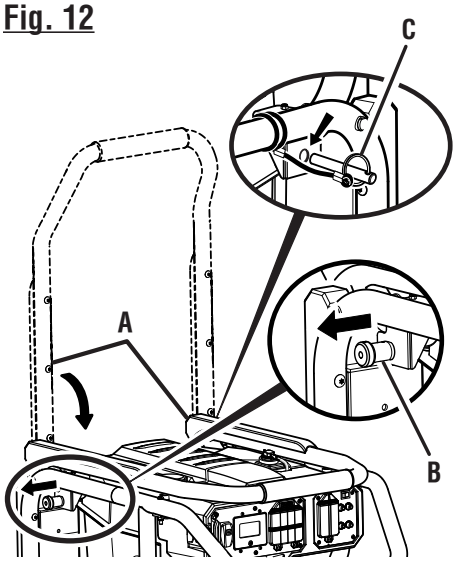
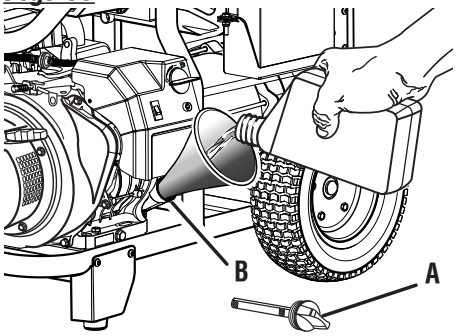


Fig. 12



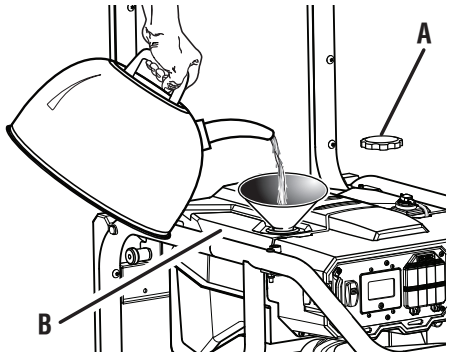
A - Handle (poignée, mango)
B - Handle release knob (relâchez le bouton de poignée, perilla de afloje del mango)
C - Handle lock pin (goupille de blocage de la poignée, pasador de seguro del mango)

Fig. 13



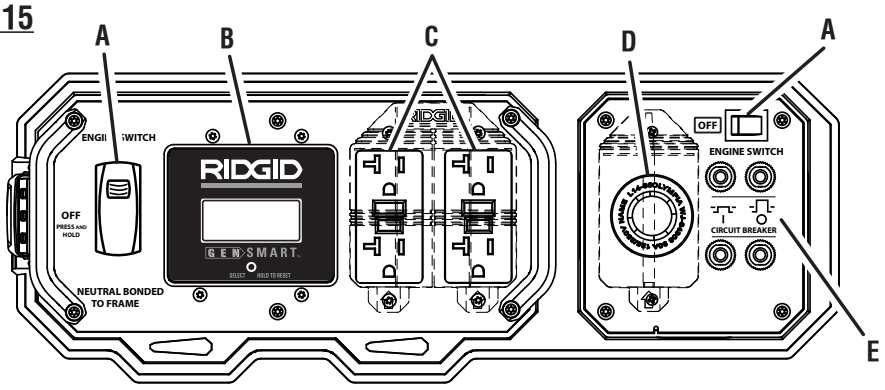
A - Oil cap/dipstick (bouchon/ jauge d'huile, tapa de relleno de aceite/varilla medidora de aceite)
B - Oil fill hole (orifice de remplissage d'huile, agujero de llenado de aceite)

Fig. 14



A - Fuel cap (bouchon de carburant, tapa del tanque de combustible)
B - Fuel tank (réservoir de carburant, tanque de combustible)

Fig. 15



A - Engine switch (commutateur du moteur, interruptor del motor)
B - GenSmart™ monitoring system (système de surveillance GenSmart™, sistema de monitoreo GenSmart™)
C - 120 volt AC 20 amp receptacles (prises 120 V C.A. 20 A, 120 V de CA 20 A receptáculos)
D - 240 volt AC 30 amp receptacle (prise 240 V C.A. 30 A, 240 V de CA 30 A receptáculo)
E - AC circuit breaker (disjoncteur de C.A., disyuntor de circuito de CA)

Fig. 16

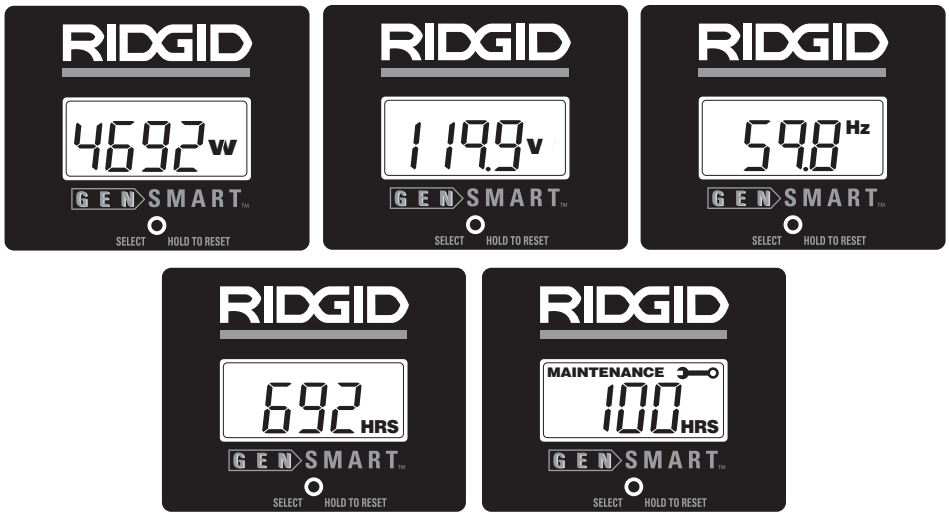
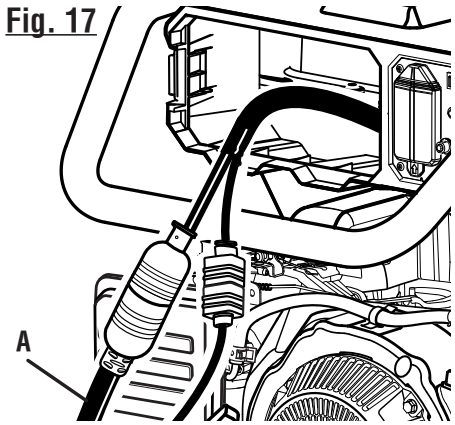
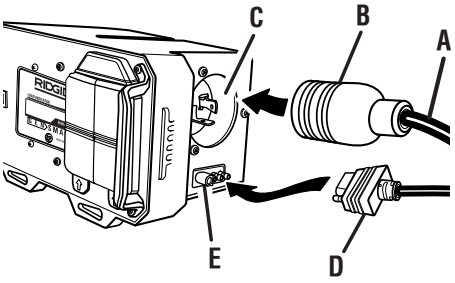


Fig. 17





A - Control panel cord (not provided) [cordon de panneau de commande (non fourni), cordón de panel de control (no incluido)]
B - Twist-lock plug (prise à verrouillage, enchufe de bloqueo de giro)
C - Twist-lock receptacle (prise à verrouillage par rotation, receptáculo de fijación)
D - 12 Volt DC connector (connecteur de 12 V c.c., conector de corr. cont. de 12 V)
E - 12 Volt DC receptacle (prise de 12 V c.c., receptáculo de corr. cont. de 12 V)

Fig. 18



Fig. 19

A - Handle lock pin (goupille de blocage de la poignée, pasador de seguro del mango)
B - Joined area (partie jointe, área acoplada)

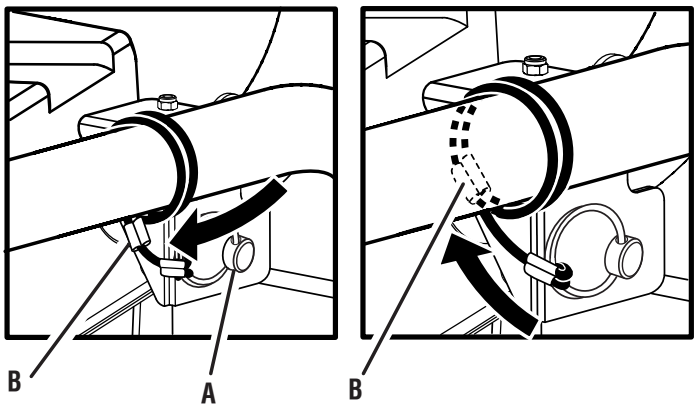


Fig. 20

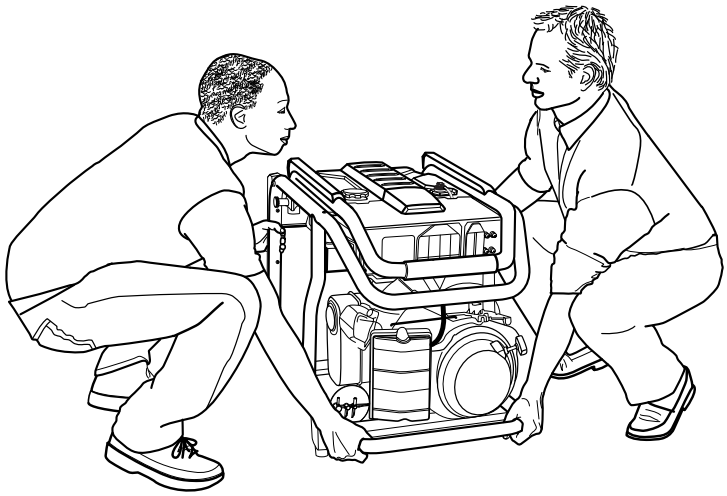
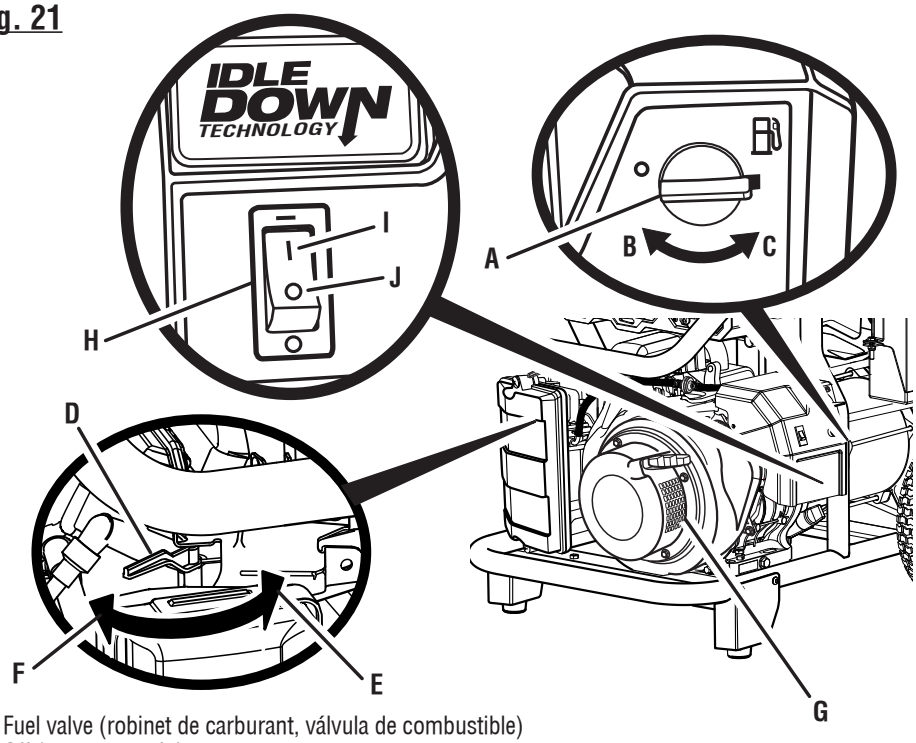
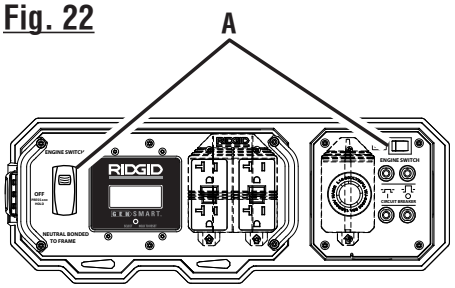


Fig. 21



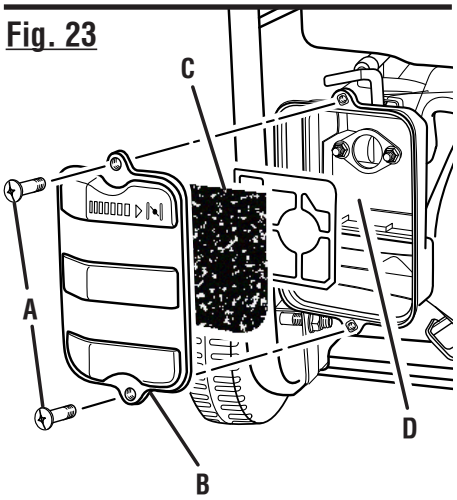
A - Fuel valve (robinet de carburant, válvula de combustible)
B - Off (arret, apagado)
C - On (marche, encendido)
D - Choke lever (levier de volet de départ, palanca del anegador)
E - Start position (position de démarrage, posición de arranque)
F - Run position (position de marche, posición de functionamiento)
G - Recoil starter grip (manchon en lanceur à rappel, agarradera del arranque retráctil)
H - Idle control switch (commande du ralenti, interruptor de control de ralentí)
I - (I) On (marche, encendido)
J - (O) Off (arret, apagado)

Fig. 22



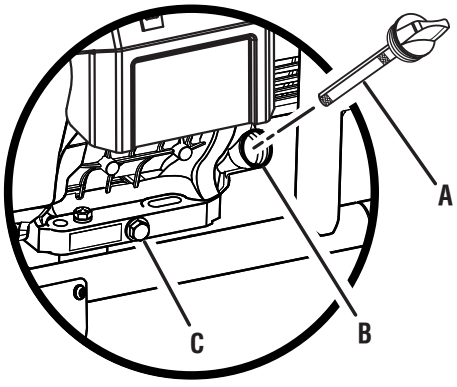
A - Engine switch (commutateur du moteur, interruptor encendido/apagado del motor)

Fig. 23



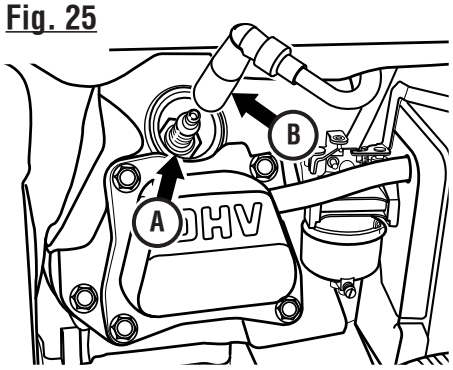
A - Screws (vis, tornillos)
B - Air filter cover (couvercle du filtre à air, tapa del filtro de aire)
C - Filter element (élément du filtre, elemento de filtro)
D - Air filter unit (unité de filtre à air, unidad del filtro de aire)

Fig. 24



A - Oil cap/dipstick (bouchon/ jauge d'huile, tapa de relleno de aceite/varilla medidora de aceite)
B - Oil fill hole (orifice de remplissage d'huile, agujero de llenado de aceite)
C - Oil drain plug (huiler le bouchon d'égout, tapón de drenaje del aceite)

Fig. 25



A - Spark plug (bougie, bujía)
B - Spark plug cap (capuchon de bougie, tapa de la bujía)

Fig. 26

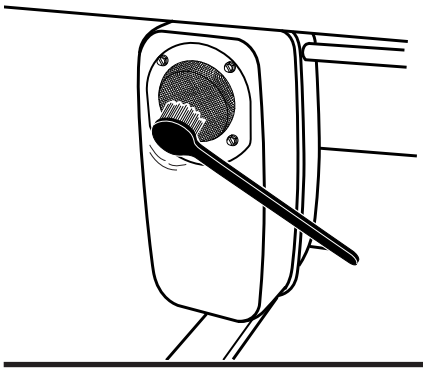
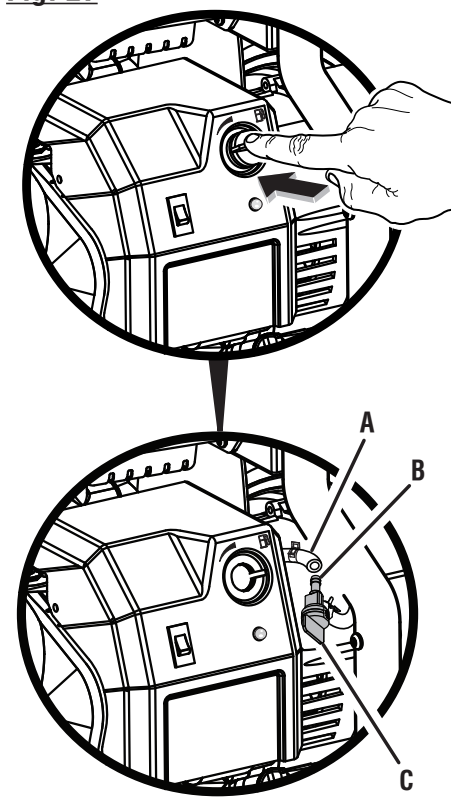
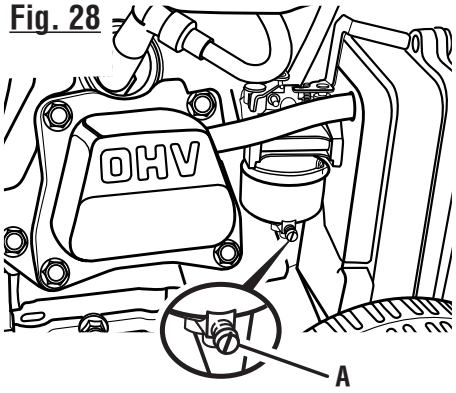


Fig. 27



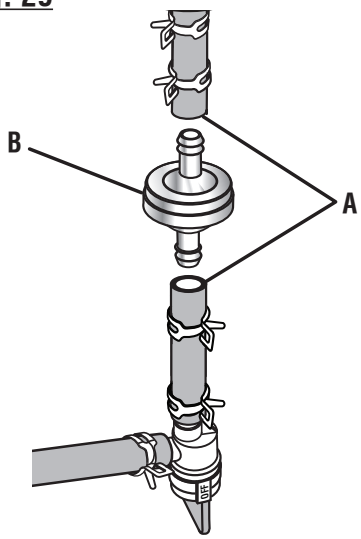
A - Fuel line (conduite de carburant, conducto de combustible)
B - Petcock (robinet de carburant, llave de purga)
C - Fuel valve (robinet de carburant, válvula de combustible)

Fig. 28



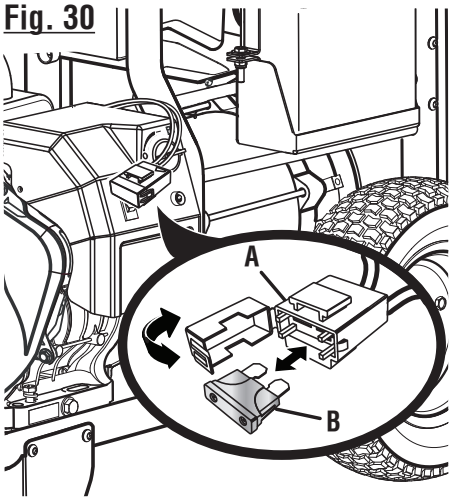
A - Carburetor drain screw (vis de vidange du carburateur, tornillo de drenaje del carburador)

Fig. 29



A - Fuel line (conduites de carburant ,conducto de combustible)
B - Fuel filter (filtre à carburant, filtro de combustible)

Fig. 30



A - Cover (couvercle, cubierta)
B - Fuse (fusible, fusible)

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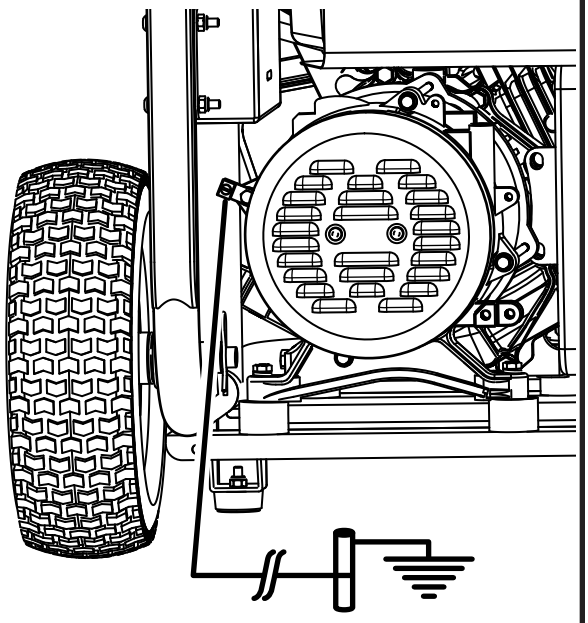
INTRODUCTION

This product has many features for making its use more pleasant and enjoyable. Safety, performance, and dependability have been given top priority in the design of this product, making it easy to maintain and operate.

⚠ DANGER:

GROUNDING THE GENERATOR

To reduce the risk of shock or electrocution, generator must be properly grounded. The nut and ground terminal on the frame must always be used to connect the generator to a suitable ground source. The ground path should be made with #8 size wire. Connect the terminal of the ground wire between the lock washer and the nut, and tighten the nut fully. Connect the other end of the wire securely to a suitable ground source.



The National Electric Code contains several practical ways in which to establish a good ground source. If a steel or iron rod is used, it should be at least 5/8 in. diameter, and if a nonferrous rod is used, it should be at least 1/2 in. diameter and be listed as material for grounding. Drive the rod or pipe to a depth of 8 ft. If a rock bottom is encountered less than 4 ft. down, bury the rod or pipe in a trench.

All electrical tools and appliances operated from this generator must be properly grounded by use of a third wire or be “Double Insulated.”

It is recommended to:

1. Use electrical devices with 3-prong grounded plugs.
2. Use an extension cord intended for outdoor use with a 3-pole receptacle and a 3-prong plug at opposite ends to ensure continuity of the ground protection from the generator to the appliance.

Check and adhere to all applicable federal, state, and local regulations relating to grounding specifications. Consult a qualified electrician or service personnel if the grounding instructions are not completely understood or if in doubt as to whether the generator is properly grounded.

IMPORTANT SAFETY INSTRUCTIONS

DANGER:

Carbon Monoxide. Using a generator indoors CAN KILL YOU IN MINUTES.

Generator exhaust contains high levels of carbon monoxide (CO), a poisonous gas you cannot see or smell. If you can smell the generator exhaust, you are breathing CO. But even if you cannot smell the exhaust, you could be breathing CO.

- Never use a generator inside homes, garages, crawlspaces, or other partly enclosed areas. Deadly levels of carbon monoxide can build up in these areas. Using a fan or opening windows and doors does NOT supply enough fresh air.
- ONLY use a generator outdoors and far away from open windows, doors, and vents. These openings can pull in generator exhaust.

Even when you use a generator correctly, CO may leak into the home. ALWAYS use a battery-powered or battery-backup CO alarm in the home.

If you start to feel sick, dizzy, or weak after the generator has been running, move to fresh air RIGHT AWAY. See a doctor. You could have carbon monoxide poisoning.

WARNING:

Read and understand all instructions. Failure to follow all instructions listed below could result in electrocution, fire, and/or carbon monoxide poisoning, which can cause death or serious injury.

DANGER:

National Electric Code requires generator to be grounded to an approved earth ground. Before using the ground terminal, consult a qualified electrician, electrical inspector, or local agency having jurisdiction for local codes or ordinances that apply to the intended use of the generator.

SAVE THESE INSTRUCTIONS

This manual contains important instructions for this product that should be followed during installation and maintenance of the generator.

- Do not connect to a building's electrical system unless the generator and transfer switch have been properly installed and the electrical output has been verified by a qualified electrician. The connection must isolate the generator power from utility power and must comply with all applicable laws and electrical codes.
- Do not allow children or untrained individuals to use this unit.
- Do not start or operate the engine in a confined space, building, near open windows, or in other unventilated space where dangerous carbon monoxide fumes can collect. Carbon monoxide, a colorless, odorless, and extremely dangerous gas, can cause unconsciousness or death.
- Keep all bystanders, children, and pets at least 10 feet away.
- Wear sturdy and dry shoes or boots. Do not operate while barefoot.
- Do not operate generator when you are tired or under the influence of drugs, alcohol, or medication.
- Keep all parts of your body away from any moving parts and all hot surfaces of the unit.
- Do not touch bare wire or receptacles.
- Do not use generator with electrical cords which are worn, frayed, bare, or otherwise damaged.
- Before storing, allow the engine to cool and drain fuel from the unit.
- Do not operate or store the generator in rain, snow, or wet weather.
- Store the generator in a well-ventilated area with the fuel tank empty. Fuel should not be stored near the generator.
- Empty fuel tank, close fuel valve, and restrain the unit from moving before transporting in a vehicle.
- Allow engine to cool for five minutes before refueling.
- To reduce the risk of fire and burn injury, handle fuel with care. It is highly flammable.
- Do not smoke while handling fuel.
- Store fuel in a container approved for gasoline.
- Position the unit on level ground, stop engine, and allow to cool before refueling.
- Loosen fuel cap slowly to release pressure and to keep fuel from escaping around the cap.
- Tighten the fuel cap securely after refueling.
- Wipe spilled fuel from the unit.
- Never attempt to burn off spilled fuel under any circumstances.
- Generators vibrate in normal use. During and after the use of the generator, inspect the generator as well as extension cords and power supply cords connected to it for damage resulting from vibration. Have damaged items repaired or replaced as necessary. Do not use plugs or cords that show signs of damage such as broken or cracked insulation or damaged blades.
- For power outages, permanently installed stationary generators are better suited for providing back-up power to the home. Even a properly connected portable generator can become overloaded. This may result in overheating or stressing the generator components, possibly leading to generator failure.

IMPORTANT SAFETY INSTRUCTIONS

- Use only authorized replacement parts and accessories and follow instructions in the *Maintenance* section of this manual. Use of unauthorized parts or failure to follow maintenance instructions may create a risk of shock or injury.
- Maintain the unit per maintenance instructions in this Operator's Manual.
- Inspect the unit before each use for loose fasteners, fuel leaks, etc. Replace damaged parts.

SPECIFIC SAFETY RULES

WARNING:

When this generator is used to supply a building wiring system: generator must be installed by a qualified electrician and connected to a transfer switch as a separately derived system in accordance with NFPA 70, National Electrical Code. The generator shall be connected through a transfer switch that switches all conductors other than the equipment grounding conductor. The frame of the generator shall be connected to an approved grounding electrode. Failure to isolate the generator from power utility can result in death or injury to electric utility workers.

- Do not use this generator to provide power for emergency medical equipment or life support devices.
- This generator has a neutral bonded condition. This means the neutral conductor is electrically connected to the frame of the machine.
- Exhaust contains poisonous carbon monoxide, a colorless, odorless gas. Breathing exhaust can cause loss of consciousness and can lead to death. If running in a confined or partially-enclosed area, the air may contain a dangerous amount of carbon monoxide. To keep exhaust fumes from building up, always provide adequate ventilation.
- Always use a battery-powered carbon monoxide detector when running the generator. If you begin to feel sick, dizzy, or weak while using the generator, shut it off and get to fresh air immediately. See a doctor. You may have carbon monoxide poisoning.
- Place the generator on a flat, stable surface with a slope of no more than 4°.
- Operate outdoors in a well-ventilated, well-lit area isolated from working areas to avoid noise interference.
- Operating the generator in wet conditions could result in electrocution. Keep the unit dry.
- Keep the generator a minimum of 3 feet away from all types of combustible material.
- Do not operate generator near hazardous material.
- Do not operate generator at a gas or natural gas filling station.
- Do not touch the muffler or cylinder during or immediately after use; they are HOT and will cause burn injury.
- This generator has a neutral bonded condition. This means the system ground is connected electrically to the AC neutral wire.
- Do not allow the generator's gas tank to overflow when filling. Fill to 1 in. below the top neck of the gasoline tank to allow for fuel expansion. Do not cover the fuel tank cap when the engine is running. Covering the fuel tank cap during use may cause engine failure and/or damage to the tool.
- Do not smoke when filling the generator with gasoline.
- Shut down the engine and allow to cool completely before adding gasoline or lubricant to the generator.
- Do not remove the oil dipstick or the fuel tank cap when the engine is running.
- Pay close attention to all safety labels located on the generator.
- Keep children a minimum of 10 feet away from the generator at all times.
- The unit operates best in temperatures between 23°F and 104°F with a relative humidity of 90% or less.
- Operating voltage and frequency requirement of all electronic equipment should be checked prior to plugging them into this generator. Damage may result if the equipment is not designed to operate within a +/- 10% voltage variation, and +/- 3 hz frequency variation from the generator name plate ratings. To reduce the risk of damage, always have an additional load plugged into the generator if solid state equipment (such as a television set) is used. A power line conditioner is recommended for some solid state applications.
- When battery is not in use, keep it away from other metal objects like paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- For outdoor use only.
- Save these instructions. Refer to them frequently and use them to instruct others who may use this product. If you loan someone this product, loan them these instructions also.

SYMBOLS

The following signal words and meanings are intended to explain the levels of risk associated with this product.

SYMBOL	SIGNAL	MEANING
	**DANGER:**	Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.
	**WARNING:**	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.
	**CAUTION:**	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.
	NOTICE:	(Without Safety Alert Symbol) Indicates important information not related to an injury hazard, such as a situation that may result in property damage.

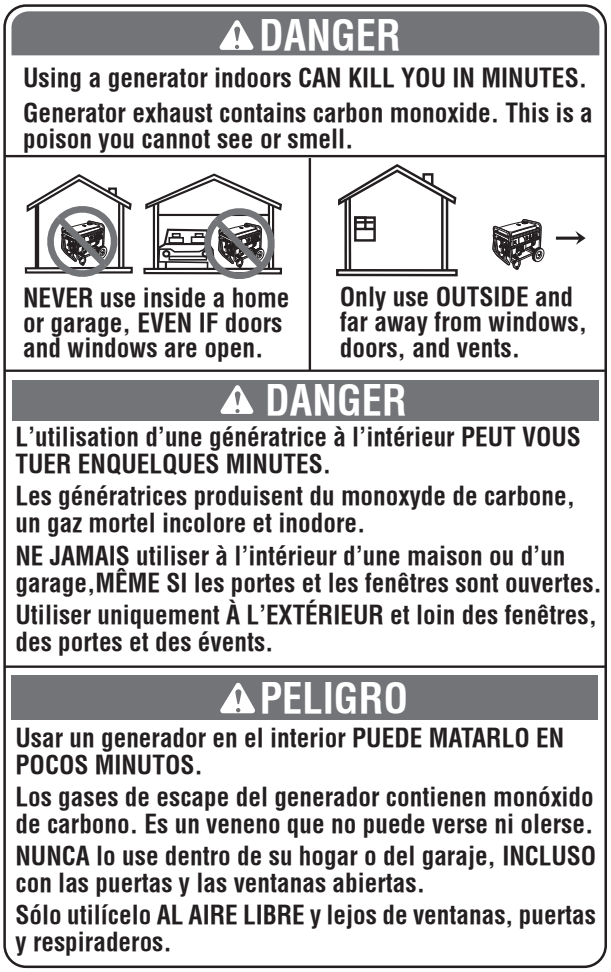
Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the product better and safer.

SYMBOL	NAME	DESIGNATION/EXPLANATION
	Safety Alert	Indicates a potential personal injury hazard.
	Read Operator's Manual	To reduce the risk of injury, user must read and understand operator's manual before using this product.
	Wet Conditions Alert	Do not expose to rain or use in damp locations.
	Electric Shock	Failure to use in dry conditions and to observe safe practices can result in electric shock.
	Toxic Fumes	Running generator gives off carbon monoxide, an odorless, colorless, poison gas. Breathing carbon monoxide can cause nausea, fainting, or death.
	Fire/Explosion	Fuel and its vapors are extremely flammable and explosive. Fire or explosion can cause severe burns or death.
	Hot Surface	To reduce the risk of injury or damage, avoid contact with any hot surface.
	Lifting Hazard	To reduce the risk of serious injury, avoid attempting to lift the generator alone.
	Ground	Consult with local electrician to determine grounding requirements before operation.
	Electrocution	Failure to properly ground generator can result in electrocution, especially if the generator is equipped with a wheel kit.
	Recycle Symbol	This product uses lead acid (Pb) batteries. Local, state or federal laws may prohibit disposal of batteries in ordinary trash. Consult your local waste authority for information regarding available recycling and/or disposal options.

SYMBOLS

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the product better and safer.

SYMBOL	NAME	DESIGNATION/EXPLANATION
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watt	Power
hrs	Hours	Time
gal	Gallon	Volume
qt	Quart	Volume

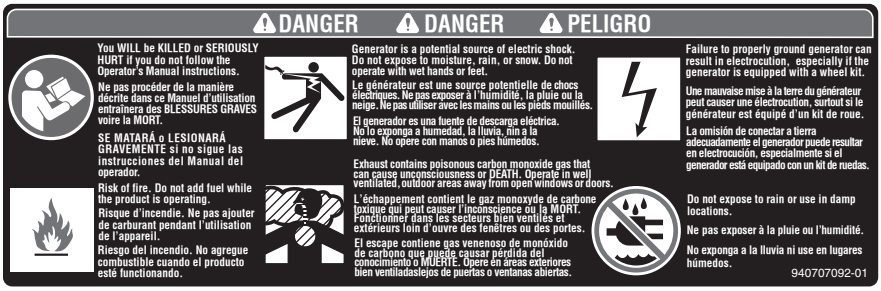


SAFETY LABELS

The information below can be found on the generator. For your safety, please study and understand all of the labels before starting the generator.

If any of the labels come off the unit or become hard to read, contact an authorized service center for replacement.

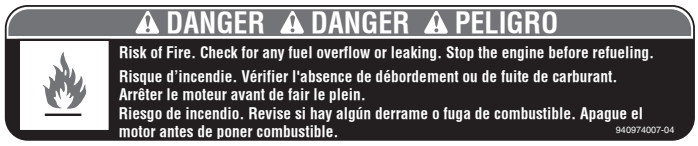
- You WILL be KILLED or SERIOUSLY HURT if you do not follow the Operator's Manual instructions.
- Risk of Fire. Do not add fuel while the product is operating.
- Generator is a potential source of electric shock. Do not expose to moisture, rain, or snow. Do not operate with wet hands or feet.
- Exhaust contains poisonous carbon monoxide gas that can cause unconsciousness or DEATH. Operate in well-ventilated, outdoor areas away from open windows or doors.
- Failure to properly ground generator can result in electrocution, especially if the generator is equipped with a wheel kit.
- Do not expose to rain or use in damp locations.
- Using a generator indoors CAN KILL YOU IN MINUTES. Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.
- NEVER use inside a home or garage, EVEN IF doors and windows are open.
- Only use OUTSIDE and far away from windows, doors, and vents.



SYMBOLS

FUEL WARNING

No smoking when filling with gasoline. Do not overfill. Full level is 1 in. below the top of the fuel neck. Stop the engine for five minutes before refueling to avoid the heat from the muffler igniting fuel vapors.



ENGINE LUBRICANT WARNING

You must add lubricant before first operating the generator. Always check the lubricant level before each operation. The lubricant level should always register between the hatched areas on the dipstick.



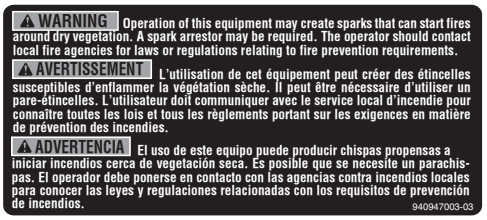
GROUNDING WARNING

National Electric Code requires generator to be grounded to an approved earth ground.



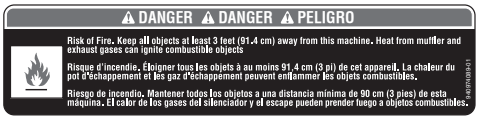
CLEARANCE WARNING

While operating and storing, keep at least 3 feet of clearance on all sides of this product, including overhead. Allow a minimum of 30 minutes of “cool down” time before storage. Heat created by muffler and exhaust gases could be hot enough to cause serious burns and/or ignite combustible objects.



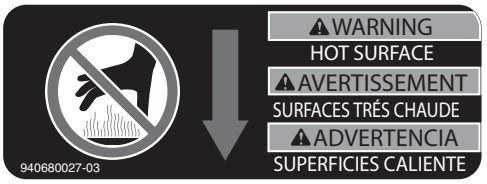
SPARK ARRESTOR

Operation of this equipment may create sparks that can start fires around dry vegetation. A spark arrestor may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.



HOT SURFACE WARNING

Do not touch the muffler or aluminum cylinder of the engine. They are very HOT and will cause severe burns. Don’t put any flammable or combustible materials in the direct path of the exhaust.



ELECTRICAL

EXTENSION CORD CABLE SIZE

Refer to the table below to ensure the cable size of the extension cords you use are capable of carrying the required load. Inadequate size cables can cause a voltage drop, which can damage the appliance and overheat the cord.

Current in Amperes	Load in Watts		Maximum Allowable Cord Length				
	At 120V	At 240V	#8 Wire	#10 Wire	#12 Wire	#14 Wire	#16 Wire
2.5	300	600		1000 ft.	600 ft.	375 ft.	250 ft.
5	600	1200		500 ft.	300 ft.	200 ft.	125 ft.
7.5	900	1800		350 ft.	200 ft.	125 ft.	100 ft.
10	1200	2400		250 ft.	150 ft.	100 ft.	50 ft.
15	1800	3600		150 ft.	100 ft.	65 ft.	
20	2400	4800	175 ft.	125 ft.	75 ft.		
25	3000	6000	150 ft.	100 ft.			
30	3600	7200	125 ft.	65 ft.			
40	4800	9600	90 ft.				

ELECTRICAL

ELECTRIC MOTOR LOADS

It is characteristic of common electric motors in normal operation to draw up to six times their running current while starting. This table may be used to estimate the watts required to start electric motors; however, if an electric motor fails to start or reach running speed, turn off the appliance or tool immediately to avoid equipment damage. Always check the requirements of the tool or appliance being used compared to the rated output of the generator.

Motor Size (H.P.)	Running Watts	Watts Required to Start Motor		
		Universal	Capacitor	Split Phase
1/8	275	N/A	850	1200
1/6	275	600	850	2050
1/4	400	800	1050	2400
1/3	450	950	1350	2700
1/2	600	1000	1800	3600
3/4	850	1200	2600	—
1	1100	N/A	3300	—

CONTROL PANEL CORD (NOT PROVIDED)

See Figure 1.

The 25-ft. control panel cord (Model RDEC25) has a 240 Volt, 20 Amp twist lock plug on one end and a 240 Volt, 20 Amp twist lock receptacle on the other end. It also has a 12 Volt DC engine control connector on each end. When using this cord, the removable control panel can provide power through the 2 x 120 Volt duplex GFCI outlets on the control box.

NOTICE:

Use removable control panel only with RDEC25 control panel cord (not provided). Do not exceed separation length of 75 ft. or a combination of three RDEC25 control panel cords.

NOTICE:

Operating voltage and frequency requirement of all electronic equipment should be checked prior to plugging them into this generator. Damage may result if the equipment is not designed to operate within a +/- 10% voltage variation, and +/- 3 hz frequency variation from the generator name plate ratings. To avoid damage, always have an additional load plugged into the generator if solid state equipment (such as a television set) is used. A power line conditioner is recommended for some solid state applications.

GROUND FAULT CIRCUIT INTERRUPTER

See Figure 2.

The 20 amp, 120 volt receptacles on the generator are protected by a Ground Fault Circuit Interrupter (GFCI), which guards against the hazards of ground fault currents. An example of ground fault current is the current that would flow through a person who is using an appliance with faulty insulation and, at the same time, is in contact with an electrical ground such as a plumbing fixture, wet floor, or earth.

GFCI receptacles do not protect against short circuits, overloads, or shocks.

The GFCI receptacles can be tested with the TEST and RESET buttons.

To test:

- Depress the TEST button. This should cause the Reset button to pop out.
- To restore power, depress the RESET button.

Perform this test monthly to ensure proper operation of the GFCI. If the generator is stored outdoors, unprotected from the weather, test the GFCI receptacle before each use.

GENERATOR CAPACITY

Make sure the generator can supply enough continuous (running) and surge (starting) watts for the items you will power at the same time. Follow these simple steps.

1. Select the items you will power at the same time.
2. Total the continuous (running) watts of these items. This is the amount of power the generator must produce to keep the items running. See the wattage reference chart at right.
3. Estimate how many surge (starting) watts you will need. Surge wattage is the short burst of power needed to start electric motor-driven tools or appliances such as a circular saw or refrigerator. Because not all motors start at the same time, total surge watts can be estimated by adding only the item(s) with the highest additional surge watts to the total rated watts from step 2.

ELECTRICAL

Example:

Tool or Appliance	Running Watts*	Additional Starting Watts*
Quartz Work Light (1000 Watt)	1000	0
Reciprocating Saw	960	960
Drill (1/2 inch, 5.4 amps)	600	900
Circular Saw (Heavy Duty, 7-1/4 in.)	1400	2300
Demolition hammer	600	1200
	4560 Total Running Watts	2300 Highest Starting Watts

Total Running Watts	4560
Highest Starting Watts	+ 2300
Total Starting Watts Needed	6860

POWER MANAGEMENT

To prolong the life of the generator and attached devices, it is important to take care when adding electrical loads to the generator. There should be nothing connected to the generator outlets before starting its engine. The correct and safe way to manage generator power is to sequentially add loads as follows:

1. With nothing connected to the generator, start the engine as described later in this manual.
2. Plug in and turn on the first load, preferably the largest load you have.
3. Permit the generator output to stabilize (engine runs smoothly and attached device operates properly).
4. Plug in and turn on the next load.
5. Again, permit the generator to stabilize.
6. Repeat steps 4 and 5 for each additional load.

Never add more loads than the generator capacity. Take special care to consider surge loads in generator capacity as previously described.

NOTICE:

Do not overload the generator's capacity. Exceeding the generator's wattage/amperage capacity may damage the generator and/or electrical devices connected to it.

Tool or Appliance	Estimated* Running Watts	Estimated* Additional Starting Watts
DIY/Job Site		
Quartz Halogen Work Light	1000	0
Airless Sprayer – 1/3 HP	600	+1200
Reciprocating Saw	960	+960
Electric Drill – 1/2 HP	600	+900
Circular Saw – 7-1/4 in.	1400	+2300
Miter Saw – 10 in.	1800	+1800
Planer/Jointer – 6 in.	1800	+1800
Table Saw/Radial Arm Saw – 10 in.	2000	+2000
Air Compressor – 1 HP	1600	+4500

*Wattages listed are approximate. Check tool or equipment for actual wattage.

FEATURES

PRODUCT SPECIFICATIONS

ENGINE

Engine Type ..... Yamaha MZ360, 4 Stroke, OHV

Fuel Volume ..... 8 gal.

GENERATOR

Rated Voltage 120V/240V

Rated Amps 56.7A/28.3A

Rated Output ..... 6,800 W

Maximum Output ..... 8,500 W

Rated Frequency ..... 60 Hz

DIMENSIONS

Length ..... 36 in.

Width ..... 23 in.

Height ..... 26 in.

Weight ..... 245 lbs.

KNOW YOUR GENERATOR

See Figure 3.

The safe use of this product requires an understanding of the information on the product and in this operator's manual as well as a knowledge of the project you are attempting. Before use of this product, familiarize yourself with all operating features and safety rules.

AC CIRCUIT BREAKER

The circuit breaker is provided to protect the generator against electrical overload. The circuit breaker may be reset by pressing the circuit breaker reset button.

AIR FILTER

The air filter helps to limit the amount of dirt and dust drawn into the unit during operation.

CHOKE LEVER

The choke lever is used when starting the engine.

ENGINE SWITCH

The engine switch is used either alone or in combination with the recoil starter grip to start the generator. To turn the engine off, place either engine switch in the "OFF" position.

FUEL TANK

The fuel tank has a capacity of 8 gallons.

FUEL VALVE

Fuel flow from the fuel tank to the engine is turned on and off using the fuel valve.

GenSmart™ MONITORING SYSTEM

The GenSmart monitoring system tracks usage and load and alerts the operator when periodic engine maintenance is needed.

NOTE: GenSmart™ load indicator monitors the load only for the 120 Volt, 20 Amp GFCI outlets on the removable control panel. It does not measure load on the 240 Volt, 30 Amp outlet.

GROUND TERMINAL

The ground terminal is used to assist in properly grounding the generator to help protect against electrical shock. Consult with a local electrician for grounding requirements in your area.

IDLE CONTROL SWITCH

When running a load of more than 300 watts, turning on the idle control switch will allow the generator to sense when no load is present. In response, the generator will begin idling at a lower RPM, which will help conserve gasoline and lessen the noise being produced by the generator.

OFF SWITCH

The generator has two off switches: one on the removable control panel and one on the stationary control panel. To turn the engine off, press and hold the OFF switch until the engine stops.

OIL CAP/DIPSTICK

Remove the oil fill cap to check and add lubricant to the generator when necessary.

OIL DRAIN PLUG

When changing the engine lubricant, the oil drain plug is removed to allow old engine lubricant to be drained.

RECEPTACLES

The following single phase, 60 Hz outlets on the control panel can be used for operating appropriate equipment, electrical lighting, tools, and motor loads: 2 x 120 Volt duplex GFCI 20 Amp receptacles, and one 240 Volt AC, 30 Amp receptacle. A 240 Volt AC, 20 Amp receptacle plugged into the side of the removable control panel is available when the panel is detached.

FEATURES

RECOIL STARTER GRIP

The recoil starter is pulled to start the machine.

REMOVABLE CONTROL PANEL

The removable control panel can be wall-mounted for use with the RDEC25 control panel cord (not provided) for operation in a variety of locations.

ASSEMBLY

UNPACKING

This product requires assembly.

- Carefully cut the box down the sides then remove the machine and any accessories from the box. Make sure that all items listed in the loose parts list are included.

  NOTE: This machine is heavy and requires a minimum of two people to lift. To avoid back injury, lift with your legs and not your back.

WARNING:
Do not use this product if any parts on the Loose Parts List are already assembled to your product when you unpack it. Parts on this list are not assembled to the product by the manufacturer and require customer installation. Use of a product that may have been improperly assembled could result in serious personal injury.

- Inspect the product carefully to make sure no damage occurred during shipping.
- Do not discard the packing material until you have carefully inspected and satisfactorily operated the product.
- If any parts are damaged or missing, please call 1-866-539-1710, for assistance.

WARNING:
If any parts are damaged or missing do not operate this product until the parts are replaced. Use of this product with damaged or missing parts could result in serious personal injury.

WARNING:
Do not attempt to modify this product or create accessories not recommended for use with this product. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.

WARNING:
Do not attempt to operate the generator until assembly is complete. Failure to comply could result in possible serious personal injury.

LOOSE PARTS LIST

See Figure 4.

The following items are included with the generator:

Key No.	Description	Qty.
1	Axle	2
2	Wheel	2
3	Washer (5/8 in.)	2
4	Hitch Pin	2
5	Screw (1/4-20 x 2 in., Hex Hd.)	4
6	Washer (1/4 in.)	6
7	Legs with Rubber Feet (Left and Right)	2
8	Nut (1/4-20, Self-Locking)	6
9	Screw (1/4-20 x 1 in., Hex Hd.)	2
10	Engine Lubricant	1
	Operator's Manual (not shown)	1

TOOLS NEEDED

See Figure 5.

The following tools (not included or drawn to scale) are needed for assembly:

- 7/16 in. Socket Wrench
- 7/16 in. and 8 mm Combination Wrench
- Phillips Screwdriver

NOTE: Do not put fuel or lubricant in the generator before installing the legs and wheels.

ASSEMBLY

INSTALLING LEGS

See Figure 6.

- Locate the following items:
  Legs with rubber feet (left and right)
  6 washers (1/4 in.)
  6 lock nuts
  4 screws (2 in.)
  2 screws (1 in.)
- Raise the front end of the generator, where the engine is located, high enough to gain access to the frame bottom; securely position props underneath to support.
- Position a leg over the holes on each side of the frame support. The tab on the leg should face the inside of the generator frame.
- Insert each 2 in. screw through a washer and insert the screws through the two holes in the frame and the leg.
- Fasten the screws by installing a self-locking nut over each screw on the inside of the frame. Tighten the nut securely.
- Insert a 1 in. screw through a washer, the hole in the frame crossbar, and then through the hole in the leg tab. Install a self-locking nut and tighten to secure.
- Repeat with remaining leg.

INSTALLING THE WHEELS

See Figure 7.

Wheels are provided to assist in moving the generator to the desired location and should be installed on the side opposite the recoil starter.

- Locate the following items:
  2 axles
  2 washers (5/8 in.)
  2 hitch pins
  2 wheels
- Raise the handle end of the generator high enough to gain access to the frame bottom; securely position props underneath to support.
- Insert an axle through the center of the wheel.
- Place a washer on the axle, then slide the axle through the bracket on the frame.
- Slide the hitch pin through the hole in the axle and make sure it is secure.
- Repeat the process on the other side to install second wheel.

CONNECTING BATTERY

See Figure 8.

The battery cables must be connected before the electric start feature of the generator can be operated.

- Connect the red wire to the positive (+) terminal first, then connect the black wire to the negative (–) terminal using the bolts, nuts, and washers provided. Make sure all connections are tight.

  NOTE: Be careful not to short across the terminals when installing. Shorting the terminals together can cause sparks, damage to the battery or generator, or even burns or explosions.
- Cover the terminals with the rubber covers.

When removing the battery for replacement: Remove the nut and bolt first from the negative (black) post, then from the positive (red) post, being careful not to short across the terminals. Always abide by the safety warnings provided with the battery. Remove the battery and dispose of according to local and state regulations.

REMOVABLE CONTROL PANEL

See Figure 9.

NOTE: To use the removable control panel, you will need the RDEC25 control panel cord (not provided). This can be purchased from the retailer where you purchased this generator.

To detach the removable control panel from the generator:

- Turn off the generator.
- Loosen the latch on the removable control panel and pull the control panel forward.
- Disconnect the twist-lock plug and the 12V engine control connector on the back of the control panel.

INSTALLING A WALL MOUNT FOR THE REMOVABLE CONTROL PANEL

See Figure 10 - 11

The removable control panel can be removed from the generator and wall-mounted in another location before reconnecting it to the generator.

To wall-mount the removable control box:

- Screws or nails for hanging the box should be spaced 4-1/4 in. from center to center.
- Mark the 4-1/4 in. measurement on a wall stud or other sturdy wood surface.
- Drill holes and insert the screws; tighten the screws securely into the wood. If using nails, the nail head should be large enough to hold the control panel securely.

  NOTE: There should be at least 5/8 in. of the screw or nails protruding from the wood piece for hanging the box.
- Hang the box on the screws or nails, making certain it is secure.

OPERATION

DANGER:

Carbon Monoxide. Using a generator indoors CAN KILL YOU IN MINUTES.

Generator exhaust contains high levels of carbon monoxide (CO), a poisonous gas you cannot see or smell. If you can smell the generator exhaust, you are breathing CO. But even if you cannot smell the exhaust, you could be breathing CO.

- Never use a generator inside homes, garages, crawlspaces, or other partly enclosed areas. Deadly levels of carbon monoxide can build up in these areas. Using a fan or opening windows and doors does NOT supply enough fresh air.
- ONLY use a generator outdoors and far away from open windows, doors, and vents. These openings can pull in generator exhaust.

Even when you use a generator correctly, CO may leak into the home. ALWAYS use a battery-powered or battery-backup CO alarm in the home.

If you start to feel sick, dizzy, or weak after the generator has been running, move to fresh air RIGHT AWAY. See a doctor. You could have carbon monoxide poisoning.

DANGER:

Failure to properly ground generator can result in electrocution, especially if the generator is equipped with a wheel kit. National Electric Code requires generator to be properly grounded to an approved earth ground. Call an electrician for local grounding requirements.

WARNING:

Do not allow familiarity with this product to make you careless. Remember that a careless fraction of a second is sufficient to inflict serious injury.

WARNING:

Do not use any attachments or accessories not recommended by the manufacturer of this product. The use of attachments or accessories not recommended can result in serious personal injury.

APPLICATIONS

This generator is designed to supply electrical power for operating compatible electrical lighting, appliances, tools, and motor loads.

BEFORE OPERATING THE UNIT

- Only use OUTSIDE and far away from windows, doors, and vents.
- NEVER use inside a home or garage, EVEN IF doors and windows are open.
- Always position the generator on a flat, firm surface.

SPECIAL REQUIREMENTS:

There may be General or State Occupational Safety and Health Administration (OSHA) regulations, local codes or ordinances that apply to the intended use of the generator.

Please consult a qualified electrician, electrical inspector, or the local agency having jurisdiction:

- In some areas, generators are required to be registered with local utility companies.
- If the generator is used at a construction site, there may be additional regulations which must be observed.

RAISING AND LOWERING THE HANDLE

See Figure 12.

- To raise the handle (for moving the generator): pull the handle release knob until the handle is up and release to lock in place. Insert the handle lock pin to secure the handle in place.
- To lower the handle (for storing or transporting the generator): remove the handle lock pin, then pull the handle release knob out and lower the handle to the down position.

Never use the handle to lift the generator. The handle should only be used for moving the unit by rolling it on its wheels.

OPERATION

CHECKING/ADDING LUBRICANT

See Figure 13.

NOTICE:

Attempting to start the engine before it has been properly filled with lubricant will result in equipment failure.

Engine lubricant has a major influence on engine performance and service life. For general, all-temperature use, SAE 10W-30 is recommended. Always use a 4-stroke motor lubricant that meets or exceeds the requirements for API service classification SJ.

This engine comes with a feature that will shut off the engine when a specific oil level is not maintained. The engine will not restart until an appropriate oil level is reached.

NOTE: Non-detergent or 2-stroke engine lubricants will damage the engine and should not be used.

- Unscrew the oil cap/dipstick and remove.
- Wipe dipstick clean and re-seat in hole; do not re-thread.
- Remove dipstick again and check lubricant level. Lubricant level should fall between the hatched areas on the dipstick.
- If level is low, add engine lubricant until the fluid level rises to the upper portion of the dipstick.
- Replace and secure the oil cap/dipstick.

USING FUEL STABILIZER

Fuel gets old, oxidizes, and breaks down over time. Adding a fuel stabilizer (not included) extends the usable life of fuel and helps prevent deposits from forming that can clog the fuel system. Follow fuel stabilizer manufacturer's directions for correct ratio of stabilizer to fuel.

- Mix fuel stabilizer and gasoline prior to filling the tank by using a gas can or other approved fuel container and shaking gently to combine.

  NOTE: To control the amount of fuel stabilizer being added to the engine, always mix fuel stabilizer with gasoline before fueling the tank rather than adding fuel stabilizer directly into the generator's fuel tank.
- Replace and secure the fuel tank cap.
- Start and run the engine for at least 5 minutes to allow stabilizer to treat the entire fuel system.

OXYGENATED FUELS

NOTICE:

Do not use E15 or E85 fuel (or fuel containing greater than 10% ethanol) in this product. It is a violation of federal law and will damage the unit and void your warranty.

Fuel system damage or performance problems resulting from the use of an oxygenated fuel containing more than the percentage of oxygenates stated below **are not covered under warranty.**

Ethanol. Gasoline containing up to 10% ethanol by volume (commonly referred to as E10) is acceptable. **E15 and E85 are not.**

CHECKING/ADDING FUEL

See Figure 14.

⚠ WARNING:

Gasoline and its vapors are highly flammable and explosive. To prevent serious personal injury and property damage, handle gasoline with care. Keep away from ignition sources, handle outdoors only, do not smoke while adding fuel, and wipe up spills immediately.

When adding gas to the generator, make sure the unit is sitting on a flat, level surface. If the engine is hot, let the generator cool before adding gas. ALWAYS fill the fuel tank outdoors with the machine turned off.

- Remove the fuel cap.
- Fill the fuel tank to 1 in. below the top of the fuel neck.
- Replace and secure the fuel cap.

NOTE: Always use unleaded gasoline with a pump octane rating of 86 or higher. Never use old, stale, or contaminated gasoline, and do not use an oil/gas mixture. Do not allow dirt or water into the fuel tank. **Do not use E85 fuel.**

REMOVABLE CONTROL PANEL

See Figure 15.

The removable control panel can be wall-mounted and connected to the generator with the 25-ft. control panel cord (Model RDEC25, not provided).

The generator can be turned OFF from the removable control panel or the off switch on the unit.

NOTE: You must push the off switch and hold it until the engine has fully stopped.

The removable control panel has two 120 Volt duplex GFCI power outlets with outlet covers. Each duplex outlet has a Test and a Reset push button.

NOTE: The GFCI outlets may be shown without their covers for clearer instruction of this feature's operation.

Use only with RDEC25 control panel cord (not provided). Do not exceed separation length of 75 ft. or a combination of three RDEC25 control panel cords.

GENERATOR CONTROL PANEL

See Figure 15.

The stationary control panel has a twist-lock 240 Volt outlet and circuit breakers.

GenSmart™ MONITORING SYSTEM

See Figure 16.

The GenSmart™ monitoring system displays wattage, voltage, hertz, and hours. To cycle through each display, press and release the select/reset button.

Load Indicator

Measures the wattage output of the 2 x 120 Volt duplex GFCI outlets located on the removable control panel. GenSmart™ monitors the load only for the 120 Volt GFCI outlets on the removable control panel. It does not measure load on the 240 Volt, 30 Amp outlet.

NOTE: If the 240 Volt receptacle is in use, the load indicated on the display will not accurately reflect the exact wattage being drawn from the generator.

Hour Meter

The digital hour meter operates whenever the engine is running and keeps track of how many hours the unit has been used. Use this meter along with the accompanying engine manual to determine when and what type of service on the unit is needed. To display, press and release the select/reset button to cycle through the displays until HRS appears.

Maintenance Warning System

At every 100 hours of use, the GenSmart™ monitoring system will display a flashing message informing the operator to service the engine as required by the engine operator's manual. To reset this message, push and hold the select/reset button located underneath the GenSmart™ display for 5 seconds.

NOTE: Be careful to only press and hold the reset button when you want the maintenance panel to be reset.

OPERATING THE GENERATOR USING THE WALL-MOUNTED REMOVABLE CONTROL PANEL

See Figure 17.

If the panel has been installed in a remote location using an RDEC25 control panel cord (not provided):

- Turn off the generator.
- Connect the generator to the removable control panel using the twist-lock plug and the 12 Volt DC engine control connector on the control panel cord.
- ONLY use a generator outdoors and far away from open windows, doors, and vents. These openings can pull in generator exhaust.
- Connect the control panel cord to the generator.

  NOTE: The total length of all connected cords should not exceed 75 ft. or three (3) RDEC25 control panel cords.
- Start the engine as described in **Starting the Engine**.
- Add devices to the generator and monitor the load of each added device using the GenSmart™ display panel.

MOVING THE GENERATOR

See Figures 18 - 19.

- Turn the engine off (O). Disconnect any equipment that is plugged into the generator.
- Turn the fuel valve to the OFF position.
- Allow 30 minutes of "cool down" time before storing the machine.
- For security, insert the handle lock pin to secure the handle before moving.

  NOTE: To help keep the handle lock pin securely in the hole, push the joined area of the lanyard toward the inside of the generator frame.
- With your foot on the rear of the frame, tilt the machine toward you until it balances on the wheels, then roll the machine to the desired location.

OPERATION

LIFTING THE GENERATOR

See Figure 20.

- Fold the handle to the down position. Never lift or carry this product using the handle.

NOTE: This tool is heavy and requires several people to lift. To avoid back injury, keep your knees bent and lift with your legs, not your back, and get help when needed.

STARTING THE ENGINE

See Figures 21 - 22.

NOTICE:

On a level surface with the engine off, check the lubricant level before each use of the generator.

- Unplug all loads from the generator.
- Turn the fuel valve to the ON position.
- Place the idle control switch in the OFF position.
- Move the choke lever right to the START position.

  NOTE: If engine is warm or the temperature is above 50˚F, move the choke lever left to the RUN position.
- Place the engine switch in the ON position.
- Slide the lock button down and push the engine switch to the START position. Hold until the engine starts.

  NOTE: The battery may require charging before the generator can be started using only the engine switch. The generator can be started by pulling the recoil starter grip. Once the generator is started, the battery will charge as the unit runs.
- The generator can also be started by pulling the recoil starter grip until the engine runs (a maximum of 6 times).

  NOTE: Do not allow the grip to snap back after starting; return it gently to its original place.
- Allow the engine to run for 15-30 seconds, then move the choke lever left to the RUN position.
- Place the idle control switch in the ON position.

  NOTE: If running a load of 300 watts or less, leave the idle control switch in the OFF position.

STOPPING THE ENGINE

See Figures 21 - 22.

To stop the engine under normal operating conditions:

- Remove any load from the generator.
- Turn the fuel valve to the OFF position.
- To stop the engine, place the engine switch in the OFF position on the removable control panel or press and hold the engine switch on the stationary control panel.

NOTE: If it is necessary to shut the engine off immediately, either off switch may be used if the removable control panel is connected to the unit.

⚠ WARNING:

While operating and storing, keep at least 3 feet of clearance on all sides of this product, including overhead. Allow a minimum of 30 minutes of “cool down” time before storage. Heat created by muffler and exhaust gases could be hot enough to cause serious burns and/or ignite combustible objects.

HIGH ALTITUDE OPERATION

Specific modifications are needed for high-altitude operation. Please contact your authorized service center for important information regarding these modifications. Operating this engine without the proper altitude modification may increase the engine’s emissions and decrease fuel economy and performance.

MAINTENANCE

WARNING:
When servicing, use only identical replacement parts. Use of any other parts could create a hazard or cause product damage.

Only the parts shown on the parts list are intended to be repaired or replaced by the customer. All other parts should be replaced at an authorized service center.

GENERAL MAINTENANCE

Keep the generator in a clean and dry environment where it is not exposed to dust, dirt, moisture, or corrosive vapors. Do not allow the cooling air slots in the generator to become clogged with foreign material such as leaves, etc.

Do not use a garden hose to clean the generator. Water entering the fuel system or other internal parts of the unit can cause problems that will decrease the life of the generator.

To clean the unit:

- Use a soft bristle brush and/or vacuum cleaner to loosen and remove dirt and debris.
- Clean air vents with low pressure air that does not exceed 25 psi.
- Wipe the exterior surfaces of the generator with a damp cloth.

CHECKING/CLEANING AIR FILTER

See Figure 23.

For proper performance and long life, keep air filter clean.

- Remove the screws from the air filter cover. Remove cover and set aside.
- Remove the filter element.
- If the filter element is dirty, clean with warm, soapy water. Rinse and let dry.
- Apply a light coat of engine lubricant to the element, then squeeze it out.
- Replace the element in the air filter unit.
- Replace the air filter cover and latch to secure.

NOTE: Do not run the generator without the air filter. Rapid engine wear will result.

CHANGING ENGINE LUBRICANT

See Figure 24.

- Remove the oil cap/dipstick.
- Place a container underneath the oil drain plug to collect used lubricant as it drains.
- Unscrew the oil drain plug and remove.
- Allow lubricant to drain completely.

  NOTE: Drain the lubricant while the engine is still warm but not hot. Warm lubricant will drain quickly and more completely.

WARNING:
Do not change engine lubricant while it is hot. Accidental contact with hot engine lubricant could result in serious burns.

- Reinstall the oil drain plug and tighten securely.
- Refill with lubricant following the instructions in the **Checking/Adding Lubricant** section. For amount of lubricant needed to refill, see **Product Specifications** earlier in this manual or the accompanying engine manual, if applicable.
- Reinstall the oil cap/dipstick.

NOTE: Used lubricant should be disposed of at an approved disposal site. See your local oil retailer for more information.

SPARK PLUG MAINTENANCE

See Figure 25.

The spark plug must be properly gapped and free of deposits in order to ensure proper engine operation. To check:

- Remove the spark plug cap.
- Clean any dirt from around base of spark plug.
- Remove spark plug using wrench (not included).
- Inspect spark plug for damage, and clean with a wire brush before reinstalling. If insulator is cracked or chipped, spark plug should be replaced. For replacement spark plug, see **Product Specifications** earlier in this manual or the accompanying engine manual, if applicable.
- Measure plug gap. The correct gap is 0.028–0.031 in. (0.7-0.8 mm). To widen gap, if necessary, carefully bend the ground (top) electrode. To lessen gap, gently tap ground electrode on a hard surface.
- Seat spark plug in position; thread in by hand to prevent cross-threading.
- Tighten with wrench to compress washer. If spark plug is new, use 1/2 turn to compress washer appropriate amount. If reusing old spark plug, use 1/8 to 1/4 turn for proper washer compression.

  NOTE: An improperly tightened spark plug will become very hot and could damage the engine.

CLEANING THE EXHAUST PORT AND MUFFLER

Depending on the type of fuel used, the type and amount of lubricant used, and/or your operating conditions, the exhaust port and muffler may become blocked with carbon deposits. If you notice a power loss with your gas-powered products, you may need to remove these deposits to restore performance. We highly recommend that only qualified service technicians perform this service.

MAINTENANCE

SPARK ARRESTOR

See Figure 26.

- Inspect the spark arrestor for breaks or holes. Replace if necessary. To purchase a replacement spark arrestor contact RIDGID customer service at 1-866-539-1710.
- Use a brush to remove carbon deposits from the spark arrestor screen as needed.

DRAINING FUEL TANK/CARBURETOR

See Figures 27 - 28.

To help prevent gum deposits in the fuel system, drain the fuel from the tank and carburetor before storing.

DRAINING THE FUEL TANK

- Turn the engine OFF (O).
- Turn the fuel valve to the OFF position.
- Push the fuel valve knob through the generator housing and pull slightly to the right to allow you to access the petcock.
- Remove the fuel line from the petcock by squeezing the ends of the retaining clip and sliding the fuel line off.
- Install one end of a drain line over the petcock, and place the other end in a fuel container large enough to catch the fuel being drained from the tank.
- Turn the fuel valve to the ON position.
- When the fuel has drained from the tank, close the fuel valve and reinstall fuel line securely on petcock.
- Reinstall fuel valve knob in generator housing. Push forward until knob snaps securely into position.

DRAINING THE CARBURETOR

- Turn the engine OFF (O).
- Turn the fuel valve to the OFF position.
- Position a suitable container under the carburetor drain screw to catch fuel; loosen the screw.
- Allow fuel to drain completely into container.
- Retighten drain screw.

NOTE: Consult hazardous waste management guidelines in your area for the proper way to dispose of used fuel.

REPLACING FUEL FILTER

See Figure 29.

Occasionally the fuel filter may become clogged and need replacing. To purchase a replacement fuel filter contact RIDGID customer service at 1-866-539-1710.

NOTE: Fuel tank must be empty before replacing fuel filter. Run unit until tank is empty, if needed, or inspect filter prior to fill-up.

To replace:

- Turn the fuel valve to the OFF position.
- Remove the fuel line from both sides of the filter by squeezing the ends of the retaining clip with pliers.
- Slide the fuel line off.
- Replace with new fuel filter.
- Reinstall fuel lines to new fuel filter.
- Turn the fuel valve to the ON position.

CHANGING ENGINE BATTERY CHARGE CIRCUIT FUSE

See Figure 30.

NOTICE:

Do not use a higher rated fuse other than the specified amperage. This could cause damage to the product.

- Grip both sides of the plastic fuse holder and twist apart to reveal the fuse and spring.
- Insert new fuse and refasten the fuse holder by pushing the two sides of the connector together and twisting to secure.

  NOTE: If spring came out of fuse holder when it was opened, it should also be replaced inside the fuse holder before securing.

TRANSPORTING

- Turn the engine OFF (O).
- Turn the fuel valve to the OFF position.
- Make sure engine and exhaust of unit is cool.
- Lower the handle.
- Keep unit level while transporting to prevent fuel spillage.
- Do not drop or strike unit or place under heavy objects.

MAINTENANCE

CALIFORNIA PROPOSITION 65

WARNING:

This product, its exhaust, and other substances that may become airborne from its use may contain chemicals, including lead, known to the State of California to cause cancer, birth defects, or other reproductive harm. ***Wash hands after handling.***

BATTERY REMOVAL AND PREPARATION FOR RECYCLING

To preserve natural resources, please recycle or dispose of batteries properly.

This product uses lead acid batteries. Local, state or federal laws may prohibit disposal of batteries in ordinary trash.

Consult your local waste authority for information regarding available recycling and/or disposal options.

WARNING:

Upon removal, cover the battery's terminals with heavy-duty adhesive tape. Do not attempt to destroy or disassemble battery or remove any of its components. Lead acid batteries must be recycled or disposed of properly. Also, never touch both terminals with metal objects and/or body parts as short circuit may result. Keep away from children. Failure to comply with these warnings could result in fire and/or serious injury.

STORAGE

When preparing the generator for storage, allow the unit to cool completely then follow the guidelines below.

STORAGE TIME	PRIOR TO STORING
Less than 2 months	■ Drain gasoline from tank and dispose of in a suitable container according to state and local ordinances.
2 months to 1 year	■ Drain fuel from carburetor. ■ Drain gasoline from tank and dispose of in a suitable container according to state and local ordinances.
1 year or more	■ Drain fuel from the carburetor. ■ Remove spark plug. ■ Drain gasoline from tank and dispose of in a suitable container according to state and local ordinances. ■ Put a tablespoon of engine lubricant into the spark plug cylinder. Turn the engine slowly with the pull rope to distribute the lubricant. ■ Reinstall spark plug. ■ Change engine lubricant. After removal from storage: ■ Fill with fresh gasoline.
NOTE: If storing gasoline in suitable container for later use, make sure gasoline has been treated with fuel stabilizer according to stabilizer manufacturer's instructions.	

MAINTENANCE

MAINTENANCE SCHEDULE

NOTE: If a separate engine manual is provided for this generator, please follow the maintenance schedule provided in the engine manual instead of the maintenance information listed below.

	Before each use	After 1st month or 20 hours of operation	Every 3 months or 50 hours of operation	Every 6 months or 100 hours of operation	Every year or after 300 hours of operation
Check Engine Lubricant	■				
Change Engine Lubricant		■		■	
Check Air Filter	■				
Clean Air Filter**			■		
Change Air Filter**					■
Check/Adjust Spark Plug				■	
Replace Spark Plug					■
Check/Adjust Idle Speed					■
Check/Adjust Valve Clearance*					■
Clean Fuel Tank and Filter*				■	
Check Fuel Hose	■				■
Fuel Filter	**Inspect**				**Replace**
Check All Hose Connections	■				■
Inspect Fuel Tank Vapor Vent (If Equipped)	■				■
Inspect Carbon Canister (CARB Models Only)	■				■

* These items should only be carried out by an authorized service center.

** See engine manual for maintenance schedule for this item.

NOTE: Maintenance should be performed more frequently when generator is used in dusty areas. When generator has exceeded the maximum figures specified in the table, maintenance should still be cycled according to the intervals of time or hours stated herein.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Engine will not start.	No fuel.	Fill fuel tank.
	Stale gasoline or water in gasoline.	Drain entire system and refill with fresh fuel.
	Lubricant level is low.	Engine is equipped with Low Oil Shutoff. If engine lubricant level is low, it must be filled before unit will start. Check engine lubricant level and fill, if necessary.
	Fuel valve is OFF.	Turn fuel valve ON.
	Spark plug faulty, fouled, or improperly gapped.	Replace spark plug.
	Choke lever is in RUN position.	Move choke lever to START position.
	Engine stored without treating or draining gasoline, or refueled with bad gasoline.	Drain fuel and carburetor. Refuel with fresh gasoline.
	Dirty fuel filter.	Replace fuel filter or contact authorized service center.
	Idle control switch is ON.	Turn idle control switch OFF.
	Engine switch is OFF.	Turn engine switch ON.
Engine hard to start	Water in gasoline.	Drain entire system and refill with fresh fuel.
	Weak spark at spark plug.	Contact authorized service center.
Engine lacks power.	Dirty air filter.	Check air filter element. Clean or replace as needed.
	Engine stored without treating or draining gasoline, or refueled with bad gasoline.	Drain fuel and carburetor. Refuel with fresh gasoline. If problem continues, contact your nearest authorized service center.
	Idle control switch is ON and load is less than 300 watts.	Turn idle control switch OFF.
AC receptacle does not work.	Circuit breaker is OFF.	Turn ON the AC circuit breaker. Reset the GFCI.
	Item plugged in is defective.	Try a different item.
Generator makes a “spark knock” or “pinging” noise.	An occasional light “knocking” or “pinging” under heavy load is not a cause for concern. However, if the knocking or pinging occurs under normal load at a steady engine speed, the problem may be with the brand of gasoline being used.	Switch to a different brand of gasoline, making sure that the octane rating is 86 or higher. If problem continues, contact your nearest authorized service center.

If problem persists after trying the above solutions, contact your nearest authorized service center for assistance.

The following symptoms may indicate problems that will affect the emissions level of the unit:

- Hard starting or stalling after starting
- Rough idle
- Misfiring or backfiring under load
- Afterburning (backfiring)
- Black exhaust smoke or high fuel consumption

If you encounter any of these symptoms, have the unit inspected and repaired by the nearest authorized service center.

WARRANTY

RIDGID® GENERATOR
3 YEAR LIMITED WARRANTY

Proof of purchase must be presented when requesting warranty service.

This product is manufactured by One World Technologies, Inc. The trademark is licensed from RIDGID, Inc. All warranty communications should be directed to One World Technologies, Inc., attn: Generator Technical Service at (toll free) 1-866-539-1710.

WHAT IS COVERED UNDER THE 3 YEAR LIMITED WARRANTY

This RIDGID® generator is warranted to the original purchaser only to be free from defects in material and workmanship subject to certain exceptions and limitations stated below, for a period of three (3) years after date of purchase.

Warranties for other RIDGID® products may vary.

WHAT IS NOT COVERED

This warranty does not apply to damage from misuse, alterations, abuse, normal wear and tear, lack of maintenance, accidents, or repairs made or attempted by anyone other than an authorized service center for RIDGID® generators.

This warranty does not cover repair if:

- normal use has exhausted the useful life of the generator and wear and tear items (including batteries, fixed and removable control panels including corresponding cords and plugs, digital displays, tires, outlet plugs and circuit breakers, switches, and extension cords if applicable)
- the customer fails to install, maintain, and operate the product in accordance with the instructions and recommendations of the company set forth in the generator operator's manual
- the product is used as rental equipment
- damage occurs due to freezing, water exposure, rust, corrosion, thermal expansion, fire, dropping, or improper use.

This warranty does not cover freight or labor charges associated with the inspection and testing of generators which are found not to be a valid warranty claim.

Gasoline Engine - Warranty: The gasoline engine on this generator is separately warranted by the engine manufacturer and is serviced through the engine manufacturer's authorized service center network. Ridgid, Inc., and One World Technologies, Inc., disclaim any and all express or implied warranties with respect to the gasoline engine.

RIDGID, INC. AND ONE WORLD TECHNOLOGIES, INC., MAKE NO WARRANTIES, REPRESENTATIONS OR PROMISES AS TO THE QUALITY OR PERFORMANCE OF THIS GENERATOR OTHER THAN THOSE SPECIFICALLY STATED IN THIS WARRANTY.

HOW TO OBTAIN SERVICE

To obtain service for this RIDGID® generator you must return it, freight prepaid, or take it in to a manufacturer-authorized service center for RIDGID® generators. You may obtain the location of the authorized service center nearest you by calling **(toll free) 1-866-539-1710** or by logging on to the RIDGID® website at **www.ridgid.com**. When requesting warranty service, you must present the original dated sales receipt. The authorized service center will repair any faulty workmanship, and either repair or replace any part covered under the warranty, at our option, at no charge to you.

ADDITIONAL LIMITATIONS

To the extent permitted by applicable law, all implied warranties, including warranties of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, are disclaimed. Any implied warranties, including warranties of merchantability or fitness for a particular purpose, that cannot be disclaimed under state law are limited to three years from the date of purchase. One World Technologies, Inc., and RIDGID®, Inc., are not responsible for direct, indirect, incidental, or consequential damages. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

This warranty applies to product sold in the U.S.A., Canada, and Mexico only.

Please consult RIDGID's website at **www.ridgid.com** or call **(toll free) 1-866-539-1710** to locate your nearest manufacturer-authorized RIDGID® generator service facility for warranty and non-warranty service on this RIDGID® generator.

One World Technologies, Inc.
P.O. Box 35, Highway 8
Pickens, SC 29671

WARRANTY

ONE WORLD TECHNOLOGIES, INC., FEDERAL EMISSION CONTROL WARRANTY STATEMENT

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The U.S. EPA, Environment Canada, and One World Technologies, Inc., are pleased to explain the evaporative emission control system's warranty on your small off-road equipment. New equipment that uses small off-road engines must be designed, built, and equipped to meet the stringent evaporative standards. One World Technologies, Inc., must warrant the evaporative emission control system on your small off-road equipment for the period listed below, provided there has been no abuse, neglect or improper maintenance of your equipment.

Your evaporative emission control system may include parts such as: carburetors, fuel tanks, fuel line, fuel caps, valves, canisters, filters, vapor hoses, clamps, connectors, and other associated components.

MANUFACTURER'S WARRANTY COVERAGE:

This evaporative emission control system is warranted for three years. If any evaporative emission-related part on your equipment is defective, the part will be repaired or replaced by One World Technologies, Inc.

OWNER'S WARRANTY RESPONSIBILITIES:

- As the small off-road equipment owner, you are responsible for performance of the required maintenance listed in your operator's manual. One World Technologies, Inc., recommends that you retain all receipts covering maintenance on your small off-road equipment, but One World Technologies, Inc., cannot deny warranty solely for the lack of receipts.
- As the small off-road equipment owner, you should, however, be aware that One World Technologies, Inc., may deny you warranty coverage if your small off-road equipment or a part has failed due to abuse, neglect, or improper maintenance or unapproved modifications.
- You are responsible for presenting your small off-road equipment to a One World Technologies, Inc., distribution center or service center as soon as the problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have a question regarding your warranty coverage, you should contact One World Technologies, Inc., at 1-866-539-1710 or www.ridgid.com.

DEFECTS WARRANTY REQUIREMENTS:

(a) The warranty period begins on the date the equipment is delivered to an ultimate purchaser.

(b) General Evaporative Emissions Warranty Coverage. The equipment must be warranted to the ultimate purchaser and any subsequent owner that the evaporative emission control system when installed was:

  (1) Designed, built, and equipped so as to conform with all applicable regulations; and

  (2) Free from defects in materials and workmanship that cause the failure of a warranted part for a period of three years.

(c) The warranty on evaporative emissions-related parts will be interpreted as follows:

  (1) Any warranted part that is not scheduled for replacement as required maintenance in the written instructions must be warranted for the warranty period defined in subsection (b)(2). If any such part fails during the period of warranty coverage, it must be repaired or replaced by the manufacturer issuing the warranty. Any such part repaired or replaced under the warranty must be warranted for a time not less than the remaining warranty period.

  (2) Any warranted part that is scheduled only for regular inspection in the written instructions must be warranted for the warranty period defined in subsection (b)(2). A statement in such written instructions to the effect of "repair or replace as necessary" will not reduce the period of warranty coverage. Any such part repaired or replaced under warranty must be warranted for a time not less than the remaining warranty period.

  (3) Any warranted part that is scheduled for replacement as required maintenance in the written instructions must be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part must be repaired or replaced by the manufacturer issuing the warranty. Any such part repaired or replaced under warranty must be warranted for a time not less than the remainder of the period prior to the first scheduled replacement point for the part.

  (4) Repair or replacement of any warranted part under the warranty provisions of this article must be performed at no charge to the owner at a warranty station.

  (5) Notwithstanding the provisions of subsection (4) above, warranty services or repairs must be provided at distribution centers that are franchised to service the subject equipment.

  (6) The owner must not be charged for diagnostic labor that leads to the determination that a warranted part is in fact defective, provided that such diagnostic work is performed at a warranty station.

  (7) Throughout the evaporative emission control system's warranty period set out in subsection (b)(2), the manufacturer issuing the warranty must maintain a supply of warranted parts sufficient to meet the expected demand for such parts.

  (8) Manufacturer approved replacement parts must be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of the manufacturer issuing the warranty.

  (9) The use of any add-on or modified parts will be grounds for disallowing a warranty claim made in accordance with this article. The manufacturer issuing the warranty will not be liable under this Article to warrant failures of warranted parts caused by the use of an add-on or modified part.

EMISSION WARRANTY PARTS LIST:

1) Fuel Tank
2) Fuel Cap
3) Fuel Line
4) Carbon Canister
5) Vapor Hoses
6) Hose Clamps
7) Hose Connectors
8) Vapor/Fuel Check Valve

Written instructions for the maintenance and use of the evaporative emissions control system by the owner shall be furnished with all new small off-road equipment.

WARRANTY

YAMAHA MOTOR CORPORATION, USA — SPARK IGNITED SMALL OFF-ROAD EQUIPMENT (SORE) WARRANTY

Yamaha Motor Corporation, USA hereby warrants that new Yamaha Spark Ignited Small Off Road Engines, hereafter called SORE engines, purchased from an authorized Yamaha SORE engine dealer in the continental United States will be free from defects in material and workmanship for the period of time stated herein, subject to certain stated limitations.

Period of Warranty — Any new Yamaha SORE engine purchased for private, non-commercial use from an authorized Yamaha SORE engine dealer in the continental United States will be warrantied against defects in material or workmanship for a period of three (3) years from date of purchase, subject to exclusions noted herein. Any Yamaha non-commercial SORE engine purchased and utilized for commercial or rental applications will be warranted for a period of one (1) year from the date of purchase, subject to exclusions noted herein.

During the period of warranty any authorized Yamaha SORE engine dealer will, free of charge, repair or replace, at Yamaha's option, any part adjudged defective by Yamaha due to faulty workmanship or material from the factory. Parts used in warranty repairs will be warranted for the balance of the product's warranty period. All parts replaced under warranty become property of Yamaha Motor Corporation, USA.

General Exclusions from this warranty shall include any failures caused by:

a. Installation of parts or accessories that are not qualitatively equivalent to genuine Yamaha parts.
b. Abnormal strain, neglect, or abuse.
c. Lack of proper maintenance.
d. Accident or collision damage.

Specific Exclusions from this warranty shall include parts replaced due to normal wear or routine maintenance.

The Customer's Responsibility under this warranty shall be to:

1. Operate and maintain the SORE engine as specified in the appropriate Operator's Manual.
2. Give notice to an authorized Yamaha SORE engine dealer of any and all apparent defects within ten (10) days after discovery, and make the unit available at time for inspection and repairs at such dealer's place of business.

Emission Control System Warranty

Yamaha Motor Corporation, USA also warrants to the ultimate purchaser of each engine covered by this warranty that the product is designed, built, and equipped so as to conform at the time of sale with all U.S. emission standards applicable at the time of manufacture and that it is free from defects in materials and workmanship which would cause it not to meet these standards within the period listed immediately below. Failures other than those resulting from defects in material or workmanship which arise solely as a result of owner abuse and/or lack of proper maintenance are not covered by this warranty.

All 1995 and later models
Three (3) years from original purchase date.

Warranty Transfer: To transfer the warranty from the original purchaser to any subsequent purchaser(s), it is imperative that the unit be inspected and registered for warranty by an authorized Yamaha consumer SORE engine dealer. In order for this warranty to remain in effect, this inspection and registration must take place within ten (10) days after transfer. An inspection and registration fee will be charged for this service. In no case will the warranty be extended beyond the original period.

Yamaha Motor Corporation, USA makes no other warranty of any kind, expressed or implied. All implied warranties of merchantability and fitness for a particular purpose which exceed the obligation and time limits stated in this warranty are hereby disclaimed by Yamaha Motor Corporation, USA and excluded from this warranty.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Also excluded from this warranty are any incidental or consequential damages including loss of use. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Yamaha Motor Corporation, USA
P.O. Box 6555
Cypress, California 90630

powerproductsemissionwarranty@yamaha-motor.com

1-866-788-7398 (USA Citizen)

1-866-788-7397 (Canadian Citizen)

WARRANTY

YAMAHA MOTOR CORPORATION, USA
SMALL OFF ROAD ENGINES
CALIFORNIA EMISSION CONTROL WARRANTY

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board and Yamaha Motor Corporation, USA are pleased to explain the emission control system warranty on your 2013 Small Off Road Engine (SORE). In California, new SORE engines must be designed, built and equipped to meet the State's stringent anti-smog standards. Yamaha must warrant the emission control system on your SORE engine for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your SORE engine.

Your emission control system may include parts such as the carburetor or fuel-injection system, the ignition system, and catalytic converter. Also included may be hoses, belts, connectors and other emission-related assemblies.

Where a warrantable condition exists, Yamaha will repair your SORE engine at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE

The 2013 SORE engines are warranted for three years. If any emissions-related part on your engine is defective, the part will be repaired or replaced by Yamaha.

OWNER'S WARRANTY RESPONSIBILITIES

As the SORE engine owner, you are responsible for the performance of the required maintenance listed in your operator's manual. Yamaha recommends that you retain all receipts covering maintenance on your SORE engine, but Yamaha cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the SORE engine owner, you should however be aware that Yamaha may deny you warranty coverage if your SORE engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your SORE engine to a Yamaha dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable time, not to exceed 30 days.

Yamaha Motor Corporation, USA warrants to the ultimate purchaser and each subsequent purchaser thereafter that each new SORE engine certified for sale and registered in California are:

1. Designed, built, and equipped so as to conform, at the time of sale, with all applicable regulations adopted by the California Air Resources Board, and
2. All warranted parts are free from defects in material and workmanship for the warranty period of the SORE engine or the period prior to the first scheduled replacement point of the warranted part as required by the maintenance schedule, if applicable, whichever is less. A defect exists when a deficiency in material or workmanship is such that an emission-related warranted part does not function as designed.

The warranty period begins on the date that the SORE engine is delivered to an ultimate purchaser or on the date it is first placed in service.

WARRANTED PARTS INCLUDE THE FOLLOWING:

1. Fuel Metering System
   Carburetor and internal parts (or fuel injection system)
   Air/fuel ratio feedback and control system
   Cold start enrichment system
2. Air Induction system
   Controlled hot air intake system
   Intake manifold
   Air filter
3. Ignition System
   Spark plugs*
   Magneto or electronic ignition system
   Spark advance/retard system
4. Exhaust Gas Recirculation (EGR) System
   EGR valve body, and carburetor spacer if applicable
   EGR rate feedback and control system
5. Air Injection System
   Air pump or pulse valve
   Valves affecting distribution of flow
   Distribution manifold
6. Catalyst or Thermal Reactor System
   Catalytic converter
   Thermal reactor
   Exhaust manifold
7. Particulate Controls
   Traps, filters, precipitators, and any other device used to capture particulate emissions
8. Miscellaneous Items Used in Above Systems
   Vacuum, temperature, and time sensitive valves and switches
   Electronic controls
   Hoses, belts, connectors, and assemblies
9. Engine components damaged due to a failure under warranty or a warranted part

*The original spark plug(s) are warranted for the period of replacement indicated in the Operator's Manual and not the useful life of the SORE engine (see your Operator's Manual).

DURING THE PERIOD OF THIS WARRANTY

Yamaha Motor Corporation, USA will repair or replace any warranted part deemed defective by Yamaha during the scope of the warranty without charge to the owner, including parts, labor, and diagnosis. This work must be done at an authorized Yamaha dealer. Give notice to an authorized Yamaha dealer of any apparent defect(s) within a reasonable period of time after discovery. The SORE engine must be made available for inspection by an authorized Yamaha dealer.

OWNER'S RESPONSIBILITY:

The owner of the SORE engine is responsible for the performance of required maintenance (see your Operator's Manual). Receipts and maintenance records covering the performance of regular maintenance should be retained in the event questions arise concerning maintenance. The receipts should be transferred to each subsequent owner of this SORE engine.

The emission control systems of your Yamaha SORE engine were designed, built, tested, and certified as being in conformity with California emission control regulations using genuine Yamaha parts. Accordingly, it is recommended that any replacement part(s) used for maintenance, replacement, or repair of emission control systems be Yamaha parts. The owner may elect to have maintenance, replacement, or repair of the emission control devices and systems performed by any repair establishment or individual, and may elect to use parts other than Yamaha parts for such maintenance, replacement, or repair without invalidating this warranty. However, the cost of such service or parts will not be covered under the warranty.

EXCLUSIONS: No warranty coverage will be allowed if the part(s) failure was caused by owner/operator abuse, neglect, tampering, improper adjustment unless performed by a dealer during warranty repair work, modification, misuse, alteration, or improper maintenance (see your Operator's Manual).

Use of parts which are not qualitatively equivalent to genuine Yamaha parts, improper service, or lack of required maintenance which causes failure of a warranted part may constitute abuse and/or improper service, thereby invalidating warranty liability hereunder.

This warranty does not cover damage resulting from accidents, acts of nature, or other events or occurrences beyond the control of Yamaha. Yamaha Motor Corporation, USA expressly disclaims responsibility for any and all consequential damages, such as loss of time, inconvenience, loss or use of the SORE engine, or commercial loss.

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